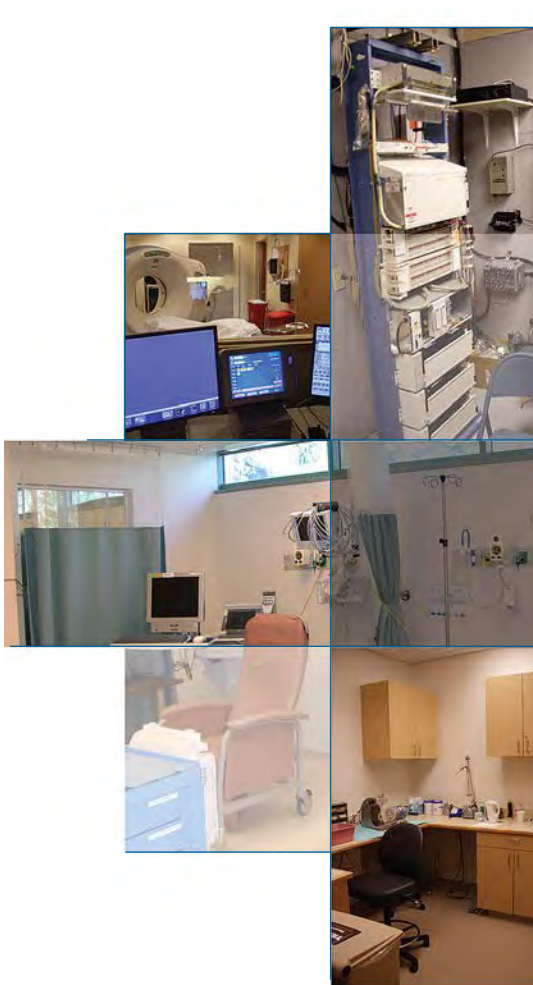


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Foreword & Acknowledgments

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Foreword

The material contained in the Outpatient Clinic Design Guide is the culmination of a partnering effort within the Department of Veterans Affairs by the Veterans Health Administration and the Office of Construction & Facilities Management, Strategic Management Office. The goal of this Design Guide is to facilitate the design process and to ensure the quality of VA facilities while controlling construction and operating costs.

This document is intended to be used as a guide and to supplement current technical manuals and other VA criteria in planning Community Based and Satellite Outpatient Clinics. The Design Guide is not to be used as a standard design. Use of this Design Guide does not preclude the need for a functional and physical design program for each specific project. It is the responsibility of the Project Architect and the Project Engineer to develop a complete and accurate project design that best meets the users' needs and applicable code requirements.

Lloyd H. Siegel, FAIA
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Acknowledgments

Credit is due to the following individuals whose guidance, advice, and effort made this publication possible:

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Introduction

The Outpatient Clinic Design Guide is intended to be a graphic consolidation of existing Department of Veterans Affairs standards and criteria. It contains data from the following sources:

- ADA Standards for Accessible Design
- International Building Code, 2006
- NFPA 101
- Barrier-Free Design Guide PG-18-13
- Design and Construction Procedures PG-18-3
- Equipment Guide List PG-7610
- Equipment Reference Manual PG-18-6
- Fire Protection Design Manual
- Master Construction Specifications PG-18-1
- National CAD Standards and Details PG-18-4
- Physical Security Design Manual (Final Draft)
- Room Finishes, Door and Hardware Schedules PG-18-14
- Seismic Design Requirements H-18-8
- Signage Design Guide
- Space Planning Criteria for VA Facilities, (formerly Handbook 7610)
- Sustainable Design and Energy Reduction Manual (Final Draft)
- VA Technical Criteria (PG-18-10 Design Manuals) pertaining to Architectural, Interior Design, HVAC, Plumbing, and Electrical
- 2006 AIA Guidelines for Design and Construction of Health Care Facilities
- HVAC Design Manual for Hospital Projects
- Emergency Power & Water Supply During Natural Disasters, Phase 2
- Energy Conservation (EPACT 2005 and DOE – Final Rule)
- Energy Conservation (Executive Order No. 13423 Dated January 24, 2007: Strengthening Federal Environmental, Energy, and Transportation Management)
- Memorandum of Understanding (MOU): Federal Leadership in High Performance and Sustainable Buildings.
- Commissioning Guidelines (issuance pending)

The Design Guide refers to the above mentioned sources when data is either too detailed or too broad to be included in this guide. These sources can be accessed at www.va.gov/facmgt/standard.

The Outpatient Clinic Design Guide was developed as a design tool to assist the medical center staff and the contracting officers in better understanding the choices that designers ask them to make, and to help designers understand the functional requirements necessary for proper operation of Community Based and Satellite Outpatient Clinics.

This Design Guide is not intended to be project-specific. It addresses the general functional and technical requirements for typical VA Outpatient Clinics. While this Guide contains information for the vast majority of space types required in Outpatient Clinics, it is not possible to foresee all future requirements. The project-specific space program is the basis for an individual project design. It is important to note that the guide plates in Section 4 are generic graphic representations intended as illustrations of VA's furniture, equipment, and personnel space needs. They are not meant to limit design opportunities.



Equipment manufacturers should be consulted for actual dimensions and utility requirements. Use of this Design Guide does not supersede the project architect's and engineers' responsibilities to develop a complete and accurate design that meets the user's needs and the appropriate code requirements within the budget constraints.



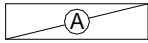
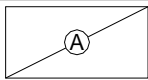
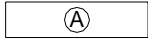

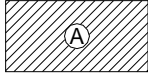

Abbreviations

















A	Amperes	KW	Kilowatt
ABA	American Barriers Act	LB	Pound/Pounds
AC/HR	Air Changes per Hour	LLTS	Lockers, Lounges, Toilets & Showers
ADA	Americans with Disabilities Act	MCS	Master Construction Specifications
AFF	Above Finished Floor	MTD	Mounted
AI	Acquisition and Installation	NFPA	National Fire Protection Association
AIDS	Acquired Immune Deficiency Syndrome	NSF	Net Square Feet
A & MM	Acquisition and Materiel Management	NSM	Net Square Meters
AR	As Required	OOCFM	Office of Construction & Facilities Management
AT	Acoustical Ceiling Tile	OSD	Open Site Drain
AT (SP)	Acoustical Ceiling Tile (with Sprayed Plastic Finish)	PACS	Picture Archiving and Communication System
BC	Base Cabinet	PCP	Portland Cement Plaster
C	Degree Celsius	PEC	Primary Engineering Control
CB	Circuit Breaker	PG	Program Guide
CBOC	Community Based Outpatient Clinic	PH	Phase
CC	Contractor Furnished Contractor Installed	PL	Plaster
CFM	Cubic Feet per Minute	PREP	Preparation
CLG	Ceiling	PSIG	Pounds per Square Inch Gauge
CMU	Concrete Masonry Unit	QT	Quarry Tile
CP	Carpet (without cushion broadloom)	RB	Resilient Base
CRS	Corrosion Resisting Steel (SS)	RSF	Resilient Sheet Flooring
CT	Ceramic Tile	SC	Special Coating (High Build Glazed Coating)
CT	Computerized Tomography	SD	Standard Detail
DG	Design Guide	SF	Square Feet, Square Foot
DS	Door Switch	SOPC	Satellite Outpatient Clinic
ECG	Electrocardiogram	SPD	Supply, Processing and Distribution
EGD	Esophagogastroduodenoscopy	SRC	Semi-Restricted Corridor
EMS	Environmental Management Service	SS	Stainless Steel (CRS)
ER	Emergency Room	TELEC	Telecommunications
ETM	Exam Treatment Module	UC	Urgent Care
EtO	Ethylene Oxide Gas	UFAS	Uniform Federal Accessibility Standards
EXH	Exhaust	UPS	Uninterruptable Power Supply
F	Degrees Fahrenheit	V	Volts
FC	Foot-candle	VA	Department of Veteran Affairs
FD	Floor Drain	VACO	Veterans Affairs Central Office
FIXT	Fixture	VAMC	Veterans Affairs Medical Center
FLUOR	Fluorescent	VC	VA Furnished Contractor Installed
GFI	Ground Fault Circuit Interrupter	VCT	Vinyl Composition Tile
GI	Gastroenterology	VHA	Veterans Health Administration
GWB	Gypsum Wallboard	VV	VA Furnished VA Installed
GYN	Gynecology	W	Watts
HAC	Housekeeping Aids Closet	WSF	Welded Seamless Flooring
HVAC	Heating, Ventilating and Air Conditioning	W/SF	Watts per Square Foot
HP	Horsepower	W/SM	Watts per Square Meter
HR	Hour	W/m ²	Watts per square meter
ICU	Intensive Care Unit		
K	Kelvin		



Legend of Symbols

SYSTEM	DESCRIPTION OF SYMBOLS	SYMBOL
Wiring devices And Power	Duplex receptacle, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Duplex receptacle, NEMA 5-20R-20 amp-mounted 3" (75 mm) above counter top/counter top back splash	
	Duplex receptacle with ground fault interrupter, NEMA 5-20R- 20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Duplex receptacle with ground fault interrupter, NEMA 5-20R- 20 amp-mounted 3" (75 mm) above counter top/counter top back splash	
	Weatherproof while in use duplex receptacle with GFI, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Quadruplex outlet, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted.	
	Quadruplex outlet, NEMA 5-20R-20 amp-mounted 3" (75 mm) above counter top/counter top back splash	
	Quadruplex outlet with ground fault interrupter, NEMA 5- 20R- 20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Quadruplex outlet with ground fault interrupter, NEMA 5-20R- 20 amp- mounted 3" (75 mm) above counter top/counter top back splash	
	Duplex receptacle on emergency power, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Quadruplex receptacle, NEMA 5-20R-20 amp- emergency power, mounted 18" (450 mm) AFF unless otherwise noted.	
	Special receptacle of the type required, mounted 18" (450 mm) AFF unless otherwise noted.	
	Electrical surface mounted multi-outlet raceway assembly, NEMA 5-20R receptacles at 2'-0" (600 mm) intervals, single or multiple channel as required-mounted 12" (300 mm) above counter.	
	Ceiling Junction box - purpose and location as noted.	
	Junction box in wall-purpose and location as noted, mounted 18" (450 mm) AFF unless otherwise noted.	
	Circuit Breaker- mounted 60" (1500 mm) AFF.	
	Electrical, panelboard cabinet, flush mounted, so maximum height of top circuit breaker is no more than 78" (1980 mm) AFF.	

SYSTEM	DESCRIPTION OF SYMBOLS	SYMBOL
Wiring devices switches	Single pole switch- mounted 46" (1150 mm) AFF	S
	Single pole switch - suffix of "a", "b", or "c" indicates separate control of fixture(s) with same designation- mounted 46" (1150 mm) AFF	S ^a
	Dimmer switch- mounted 46" (1150 mm) AFF	S ^D
	Three-way switch- mounted 46" (1150 mm) AFF	S ³
	Door switch- See architectural for mounting location.	DS
	Emergency power off (EPO) push button- mounted 40" (1000 mm) AFF.	
Lighting Fixtures	2'x2' (600 mm x 600 mm) fluorescent fixture	
	1'x4' (300 mm x 1200 mm) fluorescent fixture	
	2'x4' (600 mm x 1200 mm) fluorescent fixture	
	Wall-mounted fluorescent fixture- mounted 92" (2300 mm) AFF unless otherwise noted.	
	2'x2' (600 mm x 600 mm) fluorescent fixture- emergency power	
	2'x4' (600 mm x 1200 mm) fluorescent fixture- emergency power	
	Recess light fixture	

SYSTEM	DESCRIPTION OF SYMBOLS	SYMBOL
Auxiliary Systems	Telephone data outlet-mounted 18" (450 mm) AFF unless otherwise noted	
	Telephone data outlet-mounted 3" (75 mm) above counter top/counter top back splash	
	Wall-mounted telephone outlet-mounted 48" (1200 mm) AFF unless otherwise noted	
	Video outlet type as noted in equipment list- mounted 18" (450 mm) AFF unless otherwise noted.	
	Security/ Duress-alarm button mounted 3" (75 mm) above counter top/ counter top back splash.	
	Nurse call dome light-ceiling mounted	
	Nurse call dome light-wall mounted 96" (2300 mm) AFF unless otherwise noted.	
	Nurse call duty station- mounted 54" (1350 mm) AFF unless otherwise noted.	
	Emergency nurse call- mounted 40" (1000 mm) AFF for shower installations mount within 18" (450 mm) of shower head and or 72" (1800 mm) AFF	
	Nurse call staff station- mounted 54" (1350 mm) AFF unless otherwise noted.	
	Security/duress-alarm button wall mounted 40" (1000 mm) unless otherwise noted.	
	Junction box-purpose and location as noted- mounted 18" (450 mm) AFF unless otherwise noted.	
	Door switch- See architectural for mounting location.	
Mechanical	Room humidistat-mounted 5'-0" (1520 mm) AFF	
Plumbing	Medical gas outlet (letter designates service)- mounted 48" AFF unless otherwise noted.	
	Sprinklerhead	



Section 2

Narrative

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General Considerations

Patient Care Concepts

Following general trends in healthcare, VA continues to provide more and more services in outpatient settings. VA uses two principal settings to deliver outpatient care to Veterans: Hospital-based Ambulatory Care facilities (Ambulatory Care Design Guide) and freestanding Outpatient Clinics. Ambulatory care within both settings typically evolves around the following clinical services:

- Examination / Treatment Primary Care Clinic Modules
- Specialty Clinics
- Other Patient-Service Programs

Examination/Treatment Primary Care Clinic Modules are grouped into groups of examination rooms and ancillary support services (refer to Section 3 for a typical Primary Care Module spatial configuration). Services are provided by physicians, nurse practitioners, and physician assistants specifically trained in first point contact with patients with an undiagnosed sign, symptom, or health concern.

Specialty Care Clinics support Exam/Treatment Primary Care when such specialized needs are prescribed by the provider. Specialty Care Clinics within the Outpatient Clinic setting include such specialties as Cardiology, Dermatology, Gastroenterology, Pulmonary, Urology, and Oncology Clinics. Spatial definition of these clinic functions can be found in the VA [Space Planning Criteria, Chapter 265](#), Outpatient Clinic (Satellite OPC / Community Based OPC).

Other Patient-Service Programs are provided as required to supplement Primary and Specialty Clinic services. Service Programs include Canteen services, Educational facilities, Clinical Laboratory, Pharmacy, Radiology and Home Care services.

Outpatient Clinics are associated administratively with a Medical Center but are located off-site. Facility types include the Community Based Outpatient Clinic (CBOC) and Satellite Outpatient Clinic (SOPC). CBOCs are generally simple freestanding clinics on the order of 10,000 gsf located within a community setting to effectively provide convenient primary care. In addition to the primary care mission, they may include very basic Laboratory, Pharmacy, and Radiology functions. CBOCs typically refer patients to hospital based Ambulatory Care facilities for special care and diagnosis. SOPCs can vary significantly in size and scope of services. They may range from approximately 25,000 to over 200,000 gsf. Depending on the medical program, SOPC's may include a number of specialty clinics and extensive Laboratory, Pharmacy, and Radiology functions.

This Design Guide addresses Outpatient Clinics that are remotely located from VA Medical Centers (The Ambulatory Care Design Guide addresses hospital-based facilities). Unless noted, the information in this Guide applies to both CBOCs and SOPCs. When there are special considerations, they are identified by facility type. This Guide includes material for functions or spaces listed in VA [Space Planning Criteria, Chapter 265](#) for Outpatient Clinic (Satellite OPC/Community Based OPC). If the project-specific program includes functions or services not addressed in this Design Guide, refer to appropriate Guides or Manuals in the VA Hospital series for the service in question.



General Trends In Outpatient Care

During the last quarter century the provision of health care to Veterans has changed dramatically. In the past, care for Veterans was episodic and inpatient oriented. VA has moved from a centralized medical center bed service operation to regional outpatient care clinics closer to where patients live. To support the present trend toward localized treatment, there continues to be an increased need for conveniently located outpatient clinics providing primary, secondary, and some tertiary care services.

The primary goal of the Outpatient Clinic should be to provide high quality, comprehensive, cost effective outpatient care in a dignified manner to Veterans at a convenient location. Accordingly, Outpatient Clinics should be located close to the Veteran population. There are no criteria relating to the proximity to the parent Medical Center. Centralized hospital based ambulatory care services will remain available when required for highly specialized referral clinics and technologies, however primary care services will continue to move towards the Outpatient Clinic setting, convenient to patient access.

VA Trends

VA evaluation of how patients should be served and how they should participate in their own care is on-going. The VA health care system will continue to maintain a significant focus on physical therapy, prosthetics, and rehabilitation services. New initiatives include tele-medicine programs.

VA has increased focus on women's medicine in response to the increase in population of Veterans who are women.

Physical Security has become a prominent and growing concern with VA, for new construction as well as existing facilities. Levels of security for Leased Space identified by Homeland Security may not directly apply to VA-owned property and facilities. Refer to VA [Physical Security Design Manual](#) for criteria applicable to VA owned and leased facilities.

Other trends that have been observed within the VA outpatient clinic environment include:

Electronics within the OPC environment:

- Extensive use of hand-held and portable computers by Providers, requiring greater attention to data outlet locations and ergonomics.
- "Paperless" medical records management systems, resulting in less file storage space needs for future facilities.
- Digital equipment/processing such as radiology and dental, requiring intra-system software compatibility.
- Tele-medical services for expert resource consultation and education. This will continue to advance as a significant movement in medicine tied closely with integrated technology.

Facility Design features:

- Patient privacy conforming to HIPAA privacy regulations, typically occurring at intake and patient information transfer locations.
- Equipment alcoves adjacent to work areas, for medical supplies, weigh stations, crash carts, and other equipment.



- Patient Call Centers, relieving the Provider to focus more directly and efficiently on patient care.
- Patient Education centers at waiting areas and central lobbies, in the form of kiosks brochure displays, and handouts.
- “Hands-free” infection control operational systems, such as infra-red activated lavatory faucets and paper towel dispensers.

Level Of Care

Community Based outpatient clinics (CBOCs) are full time/part time ambulatory care facilities physically separate, but administratively attached to a VA Medical Center (parent facility). A CBOC may be thought of as a simple physician's office that provides primary care. Typically this care would consist of:

- Initial assessment of patient needs;
- Acute and chronic basic care of biopsychosocial needs;
- Health promotion and disease prevention; and
- Referral for other levels of care.

Satellite outpatient clinics (SOPCs) are offsite centers that deliver primary, secondary and some tertiary services in an outpatient setting. These clinics may have a wide range of tertiary health care services similar to ambulatory care services available in hospital-based outpatient clinics. SOPCs are physically separated from the parent VA Medical Center site but are administratively attached to them.

Market Segment

In the past the vast majority of Veterans served at VA Ambulatory Care facilities were older, retired males with multiple, chronic conditions. While a large percentage of the population served by the VA system will remain the retired Veterans, recent trends suggest continued increases in participation by women and younger Veterans. Significant increases may be expected from Gulf War and Operation Iraqi Freedom/Operation Enduring Freedom (OIF/OEF) Veterans. The special needs of these Veteran groups may be the impetus for new developments in VA programs and facilities.

While the Veteran will remain the primary concern, other user groups may also be served. Under managed care, the Veteran may choose their health program which can be extended to the spouse and other family members. VA is actively seeking sharing agreements with private-sector (University) and DoD (Army, Navy and Air Force). Sharing agreements, joint ventures, and referrals will sometimes include active-duty military, dependents, and members from the general public.

Operational Concepts

The Outpatient Clinic spaces represented in the Guide Plates in this Design Guide provide flexibility to accommodate changing patient care concepts. Aspects of patient participation, patient-focused care, and other concepts need to be addressed by specific projects.

Site selection and design are important aspects in the overall success of the outpatient clinic. The clinic site should be in a neighborhood with prime commercial or medical office space, or with research, clinical or technology space that is suitable for medical uses. The neighborhood should present a professional image and offer a feeling of security for patients and personnel.

The site must accommodate the proposed building and provide the required amount of appropriately located parking with vehicular circulation, loading dock and service vehicle access, emergency vehicle (ambulance) access and entry, safe ways of passage for pedestrians, barrier free access to public entrances, and adequate open space with landscaping to complement the architecture and create a pleasing outdoor environment.

- Topography should be without steep grades and shall not be affected by either the 100-year or 500-year flood plains, rock outcroppings, or adverse subsurface conditions.
- The site must be free of environmental hazards or restrictions.
- The site should provide prominent visibility of the facility from major public thoroughfares.
- Main ingress/egress for on-site pedestrian and vehicular circulation needs to be easily accessible from major public thoroughfares.
- Regularly scheduled public transportation should be conveniently available to the OPC site.

Contemporary Advancements / Evidence-Based Design

Contemporary advancements in health care design and practices need to be considered within every design solution, as well as those design features and practices that improve patient confidentiality (HIPAA). Contemporary “state-of-the-art” design solutions in both private and institutional health facilities should be considered whenever and wherever advancements warrant and can be justified.

Evidence-based design, another contemporary design concept, offers potential advancements in both patient and staff health, safety, and welfare, and should result in demonstrated improvements in outcomes, economic performance, productivity, customer satisfaction, and cultural enlightenment. Evidence-based design components include:

- Accessibility / ease of access
- Infection control / operational protocol
- Daylighting / natural light potential
- Air quality / natural ventilation
- Noise abatement (possibly utilizing “White Noise” medium)
- Application of color, textures, and finishes
- Environmental / use of artwork, music, and plants



OPC Ambulatory Surgery

Current Trends

With the current trend towards greater volumes and types of surgical procedures taking place in the outpatient clinic, there is a need for increased awareness of the programming, design, and cost implications associated with new clinic planning and decision making. The outpatient clinic was originally the result of strategic decision making to decentralize ambulatory care needs, operating within a low-cost "Business Occupancy" setting. Primary medical services when required were typically referred back to the parent medical center facility. Today, the trend is towards "one-stop" medical services including full service ambulatory surgery, stretching the OPC "Business Occupancy" envelope beyond its limits. This is resulting in mixed-use "Institutional (Health Care) Occupancy" design components, adding to the complexity and cost of construction and maintenance.

Current thinking is to limit Health Care Occupancy requirements within the outpatient clinic setting wherever possible, primarily from a cost containment perspective but as well from an operational, maintenance, and regulatory requirement perspective.

Business Versus Health Care Occupancy Considerations

Occupancy types are building code designations intended to identify the primary function taking place within. From a design and building code perspective, "Business" occupancies have much less stringent code and regulatory requirements than "Health Care" occupancies.

Occupancy type impacted design / operational issues:

- Area (square footage) requirements and accessory support needs.
- Procedural protocol and JCAHO oversight.
- Need for maintaining sterile environment.
- Contingencies for patient coding / complications.
- Life-Safety controls.
- HVAC / control system requirements
- Fire Protection.
- Emergency / critical lighting and power systems.

Based on these considerations, it is important to understand occupancy type impact during the programming/decision making process when planning a new outpatient clinic. This is particularly true with respect to ambulatory surgery and the types and volumes of procedures that are anticipated.



Surgery Classifications

The American College of Surgeons has defined surgical procedures as occurring within 3 facility classifications: Classes A, B, and C. These classifications have been summarized in the 2006 AIA Guidelines for Design and Construction of Health Care Facilities (hereto referred to as AIA Guidelines) and constitute the basis for defining surgical procedures as they relate to occupancy classification for this Design Guide.

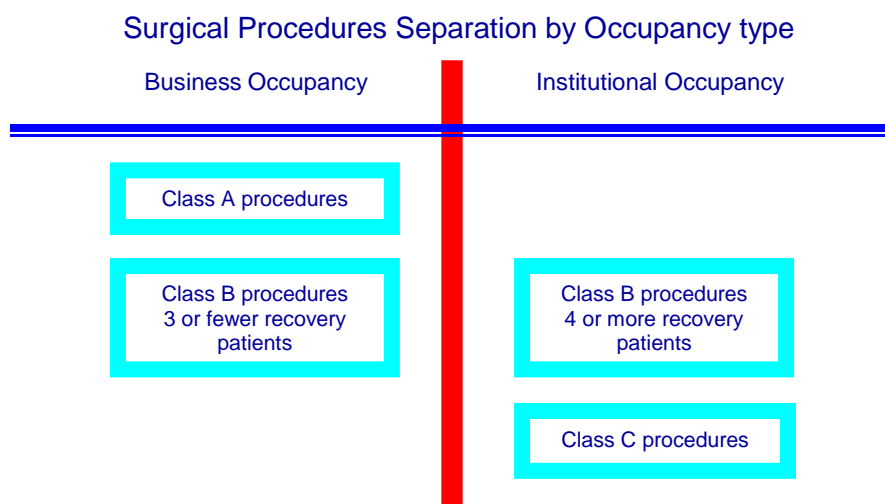
Class A: Class A facilities are defined as “minor” in nature- often referred to as “lumps and bumps” minor procedures. They are the least invasive of all three classes, and can occur within a Business Occupancy clinic environment with no volume limitations. Per AIA Guidelines, “procedures are performed under topical and local infiltration blocks with or without oral or intramuscular preoperative sedation”.

Class B: Class B facilities cover a group of procedures that can be defined as “intermediate” in nature. Depending on type of procedure and number of recovery patients, these procedures could occur within either a Business or Health Care occupancy. With four or more recovery patients, these facilities would default to a Health Care occupancy environment. Per AIA Guidelines, these procedures provide for “minor or major procedures performed in conjunction with oral, parenteral, or intravenous sedation or under analgesic or dissociative drugs”.

Class C: Class C facilities encompass major surgical procedures that always occur within a Health Care Occupancy environment. Per AIA Guidelines, this class provides for “major surgical procedures that require general or regional block anesthesia and support of vital bodily functions”.

It should be noted that Class A procedures can occur within Class B or C procedure facilities; however, the opposite is not permissible.

The following diagram graphically depicts the relationship of surgical classifications as a function of Occupancy Types and number of recovery patients. The red line depicts the separation of classifications by restricted sterile environment.



Based on AIA 2006 Guidelines, Section A2.3.1 American
College of Surgeons Surgical Facility Classes



Operating Rooms

Ambulatory Surgery is identified within the VA [Space Planning Criteria, Chapter 265](#), Outpatient Clinic (Satellite OPC/Community Based OPC). Under this Chapter, Functional Area: OPC Surgery identifies three types of operating rooms:

- General Operating Room – OR (ORGS1)
- Cystoscopy Room – (ORCS1)
- Minor Procedure / Operating Room – OR (TRGS1)

Under Chapter 265, Functional Area 10: Digestive Diseases Program, Endoscopy (EGD)/Colonoscopy Procedure Rooms often occur within the Ambulatory Surgical Suite as well, allowing for shared ancillary support functions within the same sterile environment. Other Functional Area Clinical Sub-Specialty procedure rooms generally do not share space within the Surgical Suite, and are located within their respective clinical service areas.

Within a Hospital/Hospital-Based Ambulatory Care setting, General Operating Rooms are governed by a separate VA [Surgical Service Design Guide](#) and [Chapter 286 – Surgical Service](#). Spatial, ancillary, and infrastructural systems are defined within the more restrictive Health Care Occupancy, and are typically aligned with hospital/inpatient functional needs.

OPC General Operating Room – OR (ORGS1): When permitted as a function of facility programming needs, General Operating Rooms are provided in pairs, with a common shared scrub area/sterile utility space. Typically located within a Surgical Suite, each room has a floor area of 450 nsf (41.8 nsm). OPC General Operating Rooms can accommodate all surgical procedure classifications, however, due to heavy work loads, are generally limited to Class C and certain Class B procedures where appropriate. These operating rooms are located within a restricted (sterile) area limiting access, and requiring special protocol for maintaining a sterile environment. Ceiling height is a minimum 9'-6" to accommodate overhead OR lights and medical gas columns.

Ancillary support/space needs are typically required, and can include the following:

- Post-op / Recovery area(s)
- Doctor and staff break area / Lockers / Toilets / Showers (LLTS)
- Scrub area
- Anesthesia and Staff Workrooms / Drug distribution
- Clean / Soiled Utility
- SPD / Sterilizing facilities
- Equipment Storage, including stretcher and wheelchair
- Control / Nurse support functions
- Housekeeping Aids Closet (HAC)

Cystoscopy Room (ORCS1): Cystoscopy Rooms may be programmed within an OR Suite, or separately. Cysto Rooms, when provided, are limited to one per Suite with a floor area same as General Operation Rooms, 450 nsf (41.8 nsm). These rooms, when not a part of a larger OR Suite, may or may not be located within a restricted area; however, sterile protocol measures



are maintained within the space. Similar to OR's, ceiling height is a minimum 9'-6" to accommodate overhead OR lights and medical gas columns. Ancillary support needs are shared with the Operating Room suite when occurring, or when separate, are provided as required for programmed procedural needs.

Minor Procedure / Operating Room – OR (TRGS1): Minor Procedure Rooms are utilized for Class A and certain types of Class B surgical procedures. When occurring within a Minor Surgery Center, they are provided two per suite. Room size is 250 nsf (23.3 nsm). Typically, the Minor Procedure Room is not located within a restricted area; however, sterile protocol measures are maintained. When part of a surgical unit, it is preferably adjacent to the restricted sterile surgical suite. Ceiling height is typically 9'-0" where portable surgical lighting is used, or 9'-6" to accommodate overhead fixed OR lighting.

OPC Ambulatory Surgery Design Issues

Architectural Finishes: Floor, wall, and ceiling finishes within the ambulatory surgery environment are typically selected with infection control in mind, and to resist bacterial growth. Hard, seamless, non-absorbent, scrubbable surfaces are recommended and considered mandatory.

Medical Equipment: Equipment should be identified, along with service utility requirements, i.e., water/drain, power (emergency/normal), heat output, vacuum, air, etc. Equipment sizes should be identified to ensure adequate space is accommodated in the planning process. Door sizes should be double checked to ensure adequate width for the movement of equipment in and out for servicing/replacement.

Medical Gases: Medical gases are normally provided within operating room environments. Gases provided generally include vacuum, medical air, and oxygen. Depending on facility size, medical gases can be supplied via portable tank, or pipe/manifold system from centralized tank storage. Medical air and vacuum are typically piped systems from a central equipment room. When piped systems are utilized, zone shut-off valves are typically installed adjacent to the central control station. Flammable anesthetic gases are not allowed.

Mechanical HVAC Systems: Generally speaking, HVAC systems within ambulatory surgery centers are designed to a positive air pressure relationship with that of adjacent areas, and include filtration systems for infection control. Minor Surgery Centers operating within a Business Occupancy typically do not have a dedicated HVAC system; however, special filtration is provided with emergency power backup. For Surgery Centers with Class B and C operating room procedures, a dedicated air supply system equipped for emergency power is required, with its own air handler and ductwork distribution system.

Mechanical design criteria for ambulatory surgery spaces is identified in this Design Guide under Section 4 Design Standards. For further information concerning mechanical systems within the surgical environment, refer to the VA [HVAC Design Manual](#) for Hospital Projects.

Electrical Systems: Both normal and emergency power are required within the OPC ambulatory surgery environment. Special power systems are often required for equipment and should be coordinated with procedural needs. Power is typically provided at wall locations as



well as surgical power columns often shared with medical gases. Electrical design criteria for ambulatory surgery spaces are identified in this Design Guide under Section 4 Design Standards. For further information concerning electrical systems, refer to the VA [Electrical and Telecommunication's Design Manual](#).

Auxiliary Systems: Computers and computerized equipment have become standard equipment components. The number of jack outlets should be adequate to cover anticipated needs, with ergonomic consideration given to location. Tele-medicine services are becoming more prominent as well within the clinic environment, and should be given due consideration when planning surgical services.



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OPC Functional Considerations

Space Planning & Design / Space Allocation

Program Levels: Net square footage shown in this Design Guide are coordinated with VA Space Planning Criteria Chapter 265-Outpatient Clinic. The drawings illustrate the basic net area for each space or functional area. The space program for a specific project may vary according to workload projections and the medical program for the clinic. The design A/E is responsible for accommodating project specific space program and functional requirements.

Flexibility: The design of health facilities must respond to changing workloads, business objectives and technologies. To ensure continuing adaptability to changing workloads and technologies, designers should maximize the use of standard or universal spaces that are designed to accommodate a range of related functions. Use of a standard planning module (grid) throughout the entire clinic is encouraged. Spaces with special requirements, equipment, or of non-modular sizes should be grouped where possible and designed to accommodate change.

Efficiency: VA is committed to the efficient use of resources (including energy, materials, equipment, and staff). Factors to consider in the design of Outpatient Care Facilities include:

- Efficient, or sustainable, use of resources in construction, operation, and maintenance
 - Group or combine functions with similar system requirements. Refer to [Sustainable Design and Energy Reduction Manual](#) on VA Technical Information Library (TIL).
- Efficiency in space and function
 - Share support spaces where possible,
 - Minimize duplication of facilities,
 - Accommodate inpatients and outpatients in the same setting.

Human Needs

Patient dignity and self-determination must be accommodated while considering operational efficiencies. Patients' vulnerability to stress from noise, lack of privacy, poor lighting and other causes, and the subsequent harmful effects it can have on the healing process is a well known and documented phenomenon.

An inherent opportunity exists in the design of Outpatient Clinics to address the above issues and to put forth creative solutions that enhance patient comfort and contribute to positive outcomes. A prime architectural objective should be to de-emphasize the institutional image of health care facilities and to surround the patient (and family members) with finishes and furnishings that are familiar and non-threatening. Good planning and design appeal to the spirit and sensibilities of patients and care providers alike.

Outpatient Clinics should be healing environments that allow the building itself to become part of the therapy.

Patient privacy is accommodated without sacrificing facility utilization, incorporating features to reflect compliance with Department of Health and Human Services [HIPAA regulations](#).



Physical Security

Physical security is addressed by planning, design, and detail considerations; refer to VA [Physical Security Design Manual](#). Outpatient Clinic facilities are generally classified as Life-Safety Protected; however, consideration is being given to adopt Mission Critical status.

Accessibility (ADA)

Accessibility is accommodated by the application of [PG 18-13, VA Barrier Free Design Guide; Architectural Barriers Act Accessibility Standards \(ABAAS\)](#), Appendices C and D to 36 CFR Part 1191 (adopted by GSA and supersedes Uniform Federal Accessibility Standards, UFAS); and [ADA Standards for Accessible Design \(28 CFR Part 36\)](#) to space and fixed equipment layouts.

Functional Areas

A Functional Area is the grouping of rooms and spaces based on their function within a clinical service. The organization of services in this Guide follows the categories established in VA [Space Planning Criteria, Chapter 265](#). There are a total of 28 specific Functional Areas identified in Chapter, and cover such areas as follows:

Reception Areas—Health Administration Service (HAS): Accommodates the initial processing (eligibility, admissions, etc.) of all unscheduled outpatients. It is composed of all activities necessary to accomplish the tasks associated with medical evaluation and treatment. For the purposes of this Guide, HAS (formerly MAS) denotes spaces for integral administrative functions of Ambulatory Care, and may have different administrative designations throughout VA facilities. Spaces within this functional area may include the following:

- General Waiting
- Public Restroom Facilities
- Patient Educational Services (kiosk, education conference room)
- Escort / Messenger Service
- Reception / Clerical space

Emergency Care / Urgent Care: Accommodates the examination and treatment of all outpatients determined to be in need of immediate medical care. The major function of Emergency/Urgent Care at most VA Hospitals is to assess conditions of walk-in and ambulance patients and to provide immediate treatment for stabilization, admission, or referral as required. The level of emergency services will depend upon analysis of community needs and other services to be provided by the specific facility. The facilities demonstrated in the Guide Plates provide for elementary emergency treatment including patient examination and stabilization but do not reflect the requirements to accommodate major trauma or surgical procedures. Spaces within this functional area may include the following:

- General Waiting (including separate Isolation wait area)
- Public Restrooms
- Nurse / Communication Station
- General storage for equipment (including secure medications)
- Examination / Treatment Rooms



- Provider Office space
- Clean / Soiled Utility Space
- Support services (staff restrooms, lockers, lounge)

Patient Areas: Accommodates the examination and treatment of all non-emergency outpatients, scheduled and unscheduled, and inpatients in a variety of medical/surgical disciplines. Examination/Treatment Modules are generic clinical examination and treatment facilities which accommodate scheduled and unscheduled outpatient visits with variable assignment capability based on schedule and workload needs of the using departments. Modules are further subdivided in Core Space, Support Space, and Specialty Clinic Space. Spaces within this functional area may include the following:

- Reception / Waiting Space
- Public Restrooms
- Nurse / Communication Station(s)
- Examination / Treatment Rooms (by Module)
- Procedure / Specialty Rooms
- Consultation Room(s)
- Multi-purpose Room(s)
- Provider Office Space
- Clean / Soiled Utility
- Support services (staff restrooms, lockers, lounge)

Employee Health: Accommodates any examination, testing and treatment of VA employees. In addition to the treatment of on-the-job illnesses and injuries, this unit accommodates pre-employment physicals, annual screening tests (TB, hepatitis, etc.) and storage/administration of employees' personal medications (allergy shots, insulin injections, etc.) for all the Department of Veterans Affairs (VA) medical center employees or other Department of Veterans Affairs (VA) facilities (regional office, data processing center, etc.) that may be served by the Medical Center. Space for Employee Health is incorporated into a clinic exam module. Spaces within this functional area may include the following:

- Nurse / Support Clerk Offices
- Record Storage Space

Disposition Area: Accommodates activities such as travel pay, pharmacy, etc., for scheduled and unscheduled outpatients. Patients typically visit this area last before leaving Ambulatory Care. Spaces within this functional area may include the following:

- General Waiting Space
- HAS (formerly MAS) Clerk Offices (including Agent Cashier)

Support Areas: Accommodates diagnostic support functions such as satellite X-ray, blood specimen collection, etc. Typically these support services are provided within the larger hospital setting, and therefore not included in Ambulatory Care. Other support spaces may include;

- Clean / Soiled Utility Rooms
- General Storage
- Housekeeping Aids Closets



Staff and Administrative Areas: Accommodates administrative staff and professional staff whose primary responsibilities lie in emergency care and examination/treatment. Spaces within this functional area include:

- Provider and administrative offices
- Conference room(s)
- Restroom, locker and lounge facilities

Residency Program: Accommodates medical education functions in affiliated VA facilities. Spaces within this functional area may include:

- Study / Library space
- Conference Room
- Consultation space

Special Requirements: Special requirements must be evaluated and applied on a project basis. Such requirements may include teaching, program mission and coordination of hospital, clinical and support services.

Functional Relationships

Work Flow: The Functional Diagrams in Section 3 reflect function, organization, flow, and operational issues. They should not be interpreted as preconceived floor plans, as the diagrams do not correlate exactly to all the rooms and functions available in Space Planning Criteria, or required for every project.

VA patient triage, induction, and protocol require the following:

- Triage is located between Emergency and Clinic Facilities
- Walk-in Patients arrive at Triage / HAS interview.

Organizational Concepts: The Guide Plates (Section 4) and Functional Diagrams (Section 3) address modular construction including 10 foot (3000 mm) deep exam zones, 12 foot (3600 mm) deep special/treatment/support zones, and 6 foot (1800 mm) corridor widths.

A Modular Clinic Concept utilizes functional layering which includes spaces such as Waiting, Reception, Exam, Special and Support Zones. Overlapping zones of control are provided in both planning and communications to accommodate variable assignment of partial clinic modules, exam, and treatment facilities.

Utilization of modular concepts and functional layering assists in facilitating wayfinding and subsequent patient ease.

Operations: Services

An Outpatient Clinic is a medical service that provides healthcare to scheduled and unscheduled outpatients in a freestanding setting. Emergency and in-patient services are not provided. Outpatient Clinics are typically Business Occupancies with no more than 3 patients incapable of self-preservation in the facility at the same time. Where ambulatory surgery occurs



with 4 or more recovery patients, that portion of the facility falls under Health Care (Institutional) Occupancy. The organization of services in this Guide follows the categories established in [VA Space Planning Criteria, \(formerly Handbook 7610\), Chapter 265](#).

Special Requirements must be evaluated and applied on a project basis. Such requirements may include teaching, program mission, and coordination with hospital, clinical and support services.

Special Considerations For CBOC's

Community Based Outpatient Clinics (CBOC's) are generally simple freestanding clinics on the order of 10,000 gsf located within a community setting to effectively provide convenient primary care. In addition to the primary care mission, they may include very basic Laboratory, Pharmacy, and Radiology functions. CBOC's typically refer patients to hospital based Ambulatory Care facilities for special care and diagnosis.

Leasing: Because of their limited size and complexity, Community Based clinics are most often located in leased space. GSA delegated authority for leasing space to VA in 1996. It is recommended that users unfamiliar with the leasing process read the [Lease Handbook](#) available from VA Office of Asset Enterprise Management for an understanding of the VA leasing authority. The limited size and complexity of most CBOCs will allow them to qualify for use of Simplified Lease Acquisition Procedures (SLAP). The Functional diagrams in Section 3 and Guide Plates in Section 4 may be used to communicate VA requirements to potential lessors. When space in an existing building is offered for lease, the VA team will have to evaluate the compliance with functional and technical criteria. Existing space will have been developed to local commercial standards and, unlike build-to-suit space, may not incorporate all criteria unique to VA. Compliance with Life Safety, Seismic, and Accessibility criteria is mandatory. To expedite the acquisition process, it may be in the best interest of the Government to waive other technical criteria that are in excess of prevailing local practice; provided that the space offered meets the minimum functional requirements of the program.

VA has a [Design Guide for Lease Based Outpatient Clinics](#). This Design Guide is intended for use in assisting the VA team in the leased acquisition of a new freestanding outpatient clinic space. In addition to an overview of the lease process, this Guide contains checklists and template documents to assist the team during the planning and preparation of the solicitation documents. These documents are intended to alert VA staff and consultants to the choices and issues to be addressed during the process and to provide a uniform basis for soliciting offers for all new outpatient clinics.

Pharmacy: Prescriptions generated by the CBOC may be provided in a number of ways. Each clinic should be supported by a Medical Center or a Consolidated Mail Outpatient Pharmacy (CMOP) and establishment of contract relationships with community pharmacies. VA pharmacies will have the ability to share prescription data on patients treated at medical facilities throughout the VA health care system. The basic (small) clinic will provide a consultation room for the pharmacist and minimal storage for initial supplies of pharmaceuticals. After providing patient consultation on new prescriptions, the pharmacist will enter prescription data into a DHCP terminal for transmission to the parent medical facility or CMOP. The pharmacist may provide an initial supply of medications to the patient or direct the patient to a



contracted pharmacy for medications required immediately. Expanded clinics will have a satellite pharmacy to provide a greater number of services. In addition to the required patient consultation on new prescriptions, the expanded pharmacy should be capable of providing the initial supply of medications. In both cases, refills should be handled by mail from the Medical Center or CMOP.

Radiology: Cost benefit analysis must be performed to determine the feasibility of providing in-house diagnostic radiological services verses contracting for these services in the community and/or referral to other VA facilities. Comparisons of availability of services, initial cost of space, equipment, equipment maintenance, and recurring costs of staff, supplies and utilities should be considered. If in-house diagnostic radiological services are justified, use of teleradiology with transmission of images to the parent Medical Center should be considered to reduce or eliminate the need for an on-site radiologist.

Laboratory: The basic clinic will provide space (blood draw room, specimen toilet) for collection, labeling, and storage of specimens. Specimens should be transported to the parent Medical Center or a contracted facility for processing. Expanded clinics may include on-site laboratory facilities for limited testing for basic chemistry, hematology, coagulation toxicology, and urinalysis testing most often needed for daily patient monitoring and STAT use.

Special Considerations For SOPC's

Satellite Outpatient Clinics (SOPC's) vary significantly in size and scope of services. They may range from approximately 25,000 to over 200,000 gsf. Depending on the medical program, SOPC's may include a number of specialty clinics and extensive Laboratory, Pharmacy, and Radiology functions.

Leasing: Leasing may be the most cost-effective means of obtaining space for a Satellite clinic. In most cases, use of the Simplified Lease Acquisition Procedures will not be applicable to SOPCs for one or more of the following reasons: the estimated average base (unserved) annual rent is greater than \$100,000 or the technical complexity of the space is such that only a fully developed Solicitation For Offers (SFO) can provide sufficient detail to allow bidders to understand the requirements to ensure adequate competition for the bid. Further, the pertinent GSA Regional or local official has been contacted and it has been determined that existing GSA controlled space cannot readily meet VA's need within the time frame required.

Similar to CBOC leasing, the VA has a [Design Guide for Lease Based Outpatient Clinics](#). This Design Guide is intended for use in assisting the VA team in the leased acquisition of a new freestanding outpatient clinic space. In addition to an overview of the lease process, this Guide contains checklists and template documents to assist the team during the planning and preparation of the solicitation documents. These documents are intended to alert VA staff and consultants to the choices and issues to be addressed during the process and to provide a uniform basis for soliciting offers for all new outpatient clinics.

Technical Considerations

Natural Disasters

Hurricanes, tornados, earthquakes, and floods are natural phenomena that occur within regional areas of designated probability. Design solutions should address these probabilities where they occur, to mitigate building damage and loss of life wherever possible. Selection of building sites should avoid flood plane or flood prone areas. Regional areas susceptible to hurricanes should incorporate design features that mitigate damage associated with high winds, wind-driven rain and projectiles. Tornado design mitigation is similar to hurricanes, however much more localized and intensive in nature. Buildings in areas with probability of earthquakes need to be seismically restrained in accordance with [H-18-8 Seismic Design Requirements](#).

Architectural

Exterior Construction: Selection of building envelope and enclosure systems shall follow guidance in PG-18-10, [Architectural Design Manual](#) for New Hospitals, Replacement Hospitals, Ambulatory Care, Clinical Additions, Energy Centers, and Outpatient Clinics.

Interior materials and finishes and doors shall follow guidance in PG 18-10, [Architectural Design Manual](#) and PG 18-14, [Room Finishes, Door, and Hardware Schedule](#). The Guide Plate for each space includes a listing of design criteria applicable to that space. Where a specific guide plate is not provided for a space or function, refer to PG 18-14 and the general design information below. Coordinate selections with Interior Design and Wayfinding.

Interior Design: The goal of the design is to provide a supportive interior environment that is conducive to healing both the patient's mind and body, is respectful of the public monies, promotes staff performance, and expresses progressive high quality design. The design must offer a distinctive and clear lead for the planning and selecting of interior furnishings and art. Designs that narrow choices of procurement furnishings are inappropriate. Designs that use "life-time-of-the-building" materials in colors, patterns and designs that transcend time are endorsed. Trendy colors and patterns are to be restricted to cycle replacement materials, such as paint and wall coverings. Refer to PG 18-10, [Interior Design Manual](#) For Hospital/ Ambulatory Care/Clinical Addition/Satellite Outpatient Clinic/Domiciliary/Nursing Home Projects for additional information.

Wayfinding: A "wayfinding" process needs to be designed into every project. Patients, visitors and staff need to know where they are, what their destination is, how to get there and have the ability to return. Identification, personalization of occupied spaces and orientation are all to be addressed in the design. Wayfinding is to be thought of broadly as building elements, color, texture and pattern cues, as well as a coordinated concept established for signage and artwork. Refer to [Interior Design Manual](#) and VA [Signage Design Guide](#).

Partitions should primarily be gypsum wallboard on 4 inch metal studs. Provide sound attenuation in accordance with PG 18-3, VA [Design and Construction Procedures, Topic 11: "Noise Transmission Control"](#). Provide wall and corner guards in corridors and other areas where wall damage from cart traffic is anticipated.



Floors in most spaces, including exam rooms, treatment rooms, corridors, and supply/storage spaces should be vinyl composition tile with a 4 inch (100 mm) high rubber base. Floors in procedure rooms, surgery, etc., should be welded sheet vinyl with integral coved base. Floors in offices, conference rooms and waiting areas should be carpet with a 4 inch (100 mm) high rubber base. Floors in toilet rooms should be ceramic tile with a ceramic tile base.

Ceilings in most spaces, including toilet rooms, are lay-in acoustic ceiling tile. Where required for sanitation or moisture resistance, acoustical ceiling tile shall have a washable plastic (mylar) finish.

Interior doors should be 1-3/4 inches (44 mm) thick, solid core, flush wood doors or hollow metal doors in hollow metal frames. Door jambs should have hospital type sanitary stops which do not extend to the floor, to facilitate mopping. Hollow metal doors should be used where high impact is a concern and where fire rated doors are required. Kick/mop plates should generally be applied to both sides of the doors. Increased door width is appropriate for extra-wide bariatric wheelchairs 42 inches (1050 mm) recommended.

Hardware: Accessible type should be used throughout. Refer to VA Program Guide PG 18-14, "[Room Finishes, Door and Hardware Schedule](#)" and PG 18-4, [National CAD Standards and Details](#) Detail 08 00 00-1.dwg for additional information.

Security: Partitions, doors, and hardware for Agent Cashier, Pharmacy, and other sensitive spaces have special security requirements. Refer to PG 18-3, VA [Design and Construction Procedures, Topic 14: "Security."](#)

Structural

Structural design of VA facilities shall comply with the latest editions of the following:

- Reinforced concrete design - *Building Code Requirements for Reinforced Concrete* (ACI Standard 318-02) and Commentary (ACI-318R-02), American Concrete Institute.
- Structural steel design - *Manual of Steel Construction, Load and Resistance Factor Design*, Specifications for Structural Steel Buildings, American Institute of Steel Construction, Second Edition.
- *International Building Code* (IBC), International Conference of Building Officials.
- VA [Seismic Design Requirements \(H-18-8\)](#)

In compliance with Executive Order (EO) 12699, and EO 12941, all new and existing buildings constructed or leased by the Federal Government must be seismically safe.

Equipment

Equipment Lists are provided with the Guide Plates in Section 4. Additional general information and guidance is available on the VA [Technical Information Library](#) (TIL). Refer to [Equipment Guide List \(PG-7610\)](#) for list of equipment, furnishings, and utility requirements for each space in a functional area. Refer to [Equipment Reference Manual \(PG-18-6\)](#) for graphic representations of each piece of equipment to be purchased and installed by the construction contractor. Refer to equipment manufacturers' data for information specific to a particular equipment item.



Casework: For planning and utilization concerns, casework systems should be chosen for their flexibility. Casework systems should incorporate components dimensioned for ease of multiple re-use installation applications. Casework systems should be planned avoiding corner installations and filler panels.

Information Management Systems

Information Management Systems shall include elements of patient registration, patient charges, Physician's order entry, and patient/staff movement.

These system elements will require access to the main facility's "*information backbone*" as well as the departmental Local Area Network (LAN). All components should be planned for compatibility.

Headwall Equipment Management Systems

Equipment Management Systems should facilitate a generic setting for all similar treatment spaces to organize diagnostic equipment, support equipment, and supplies.

Heating, Ventilation and Air Conditioning

Operation: Air conditioning systems should be provided to heat, cool and ventilate the individual space, as required to satisfy the VA design criteria. Follow criteria in PG-18-10, [HVAC Design Manual](#) for New Hospitals, Replacement Hospitals, Ambulatory Care, Clinical Additions, Energy Centers, Outpatient Clinics, Animal Research Facilities, and Laboratory Buildings.

The air conditioning systems serving the Outpatient Clinic should be designed to operate at occupied/unoccupied capacity to suit applicable schedule.

Capacities: The number of occupants and the air conditioning load noted on the room design standard sheets in the Guide Plates (Section 4) are for the purpose of establishing general planning parameters. The design A/E shall verify the actual occupant and air conditioning load for each specific project. Verify equipment loads for actual equipment to be furnished for a project.

The percent of outside air should be based on the space total supply air quantities.

Air Quality and Distribution: In general, clean areas shall have positive air pressure and soiled areas should have negative air flow with respect to the adjoining areas.

Corridors should not be used to supply or to exhaust/return air from rooms. Corridor air may be used to ventilate bathrooms, toilet rooms, HACs, and small electrical or telephone closets opening directly on corridors. Exfiltration/infiltration from positive/negative pressure rooms adjacent to a corridor should be considered in balancing air flow.

The transfer air should not be more than 100 CFM (2.8m³/min) per undercut door.

Care should be taken to minimize the short circuiting of air between supply and return/exhaust openings in rooms.



Negative pressurization is required at all locations where invasive procedures occur, as well as filtration of air supplied to the space. Filtration efficiency becomes more critical when provided at surgical procedure rooms.

Exhaust System: Follow criteria in PG-18-10, [HVAC Design Manual](#) for Hospital Projects for hoods located in the Outpatient Clinic. Locate supply air diffusers as far away from the hood sash opening as possible, and sized to eliminate draft conditions and for proper air flow at the hood.

Energy Conservation: The need to conserve energy is mandated by the Federal Government by both Executive Order and Federal Law. In addition, 19 Federal Agencies have signed a Memorandum of Understanding (MOU) outlining specific goals and targets for energy conservation and sustainable design. The VA is one of the signatory agencies. The following references apply, with more detailed information found within the [HVAC Design Manual](#) for Hospital Projects:

- DOE Final Rule, and Energy Policy Act (EPACT 2005)
- Energy Conservation Executive Order No. 13423 Dated January 24, 2007

Center for Disease Control (CDC): CDC requirements for design of public areas within the building to accommodate Microbacterium Tuberculosis patients must be addressed by architectural and mechanical disciplines. Check current requirements for transmission of *mycobacterium tuberculosis* and TB Criteria in the [HVAC Design Manual](#) for Hospital Projects.

Seismic: Where required, install HVAC systems with seismic provisions as outlined in the PG-18-10, [HVAC Design Manual](#) for Hospital Projects and [Master Construction Specifications](#) MCS Section 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

Noise Class: Select HVAC equipment, ductwork and listed distribution devices to achieve noise levels listed in the PG-18-10 [HVAC Design Manual](#) for Hospital Projects and [Master Construction Specifications](#) Section 23 05 41, NOISE AND VIBRATION CONTROL FOR HVAC PIPING AND EQUIPMENT.

Inside Design Conditions:

Commonly Used Inside Design Temperatures and Humidity Ranges: 70 F to 75 F [21 C to 24 C] and 30% to 50% RH have different implications depending upon the application and system configuration, as shown below:

Year Around Conditions: 70 F to 75 F [21 C to 24 C] and 30% to 50% RH as defined in 2007 ASHRAE Handbook of Applications, the system shall be capable of maintaining temperatures within the range during normal working conditions. The cooling load for these spaces shall be calculated to maintain 70 F [20 C] at 50% RH and the heating load shall be calculated to maintain 75 F [24 C] at 30% RH. The year around conditions can be used for variable air volume (VAV) or constant volume (CV) systems. Year around design conditions shall be used for all patient areas.



Variable Air Volume (VAV) with Dead-Band: 70 F to 75 F [21 C to 24 C] and 30% to 50% RH as defined in ASHRAE Standard 90.1 – 2007, the space thermostat shall be capable of providing the above range and a dead-band of 5 F [2.8 C] within which the supply of cooling and heating energy to the space is shut off or reduced to a minimum. See [HVAC Design Manual](#) for room applicability.

Constant Volume (CV) System: 70 F [21 C] to 75 F [24 C] and 30% to 50% RH

- The cooling capacity shall be based on 75 F [24 C] and 50% RH and the heating capacity shall be based on 70 F [21 C] and 30% RH.
- Cooling Mode: Generally, the space relative humidity is uncontrolled in cooling season. Specific applications may require high-humidity limiting control.
- Heating Mode: 30% RH shall be controlled and maintained at the zone (air-handling unit) level by providing a central humidifier, installed either in the air-handling unit or in the main supply air duct.
- The suggested set point is 75 F [24 C] + 0 F/- 3 F [+ 0 C/- 2 C]. The space temperature is allowed to drop to 72 F [22 C] before the reheat is activated. To ensure maximum energy conservation, the maximum offset can be selected as 5 F [2.8 C], where the maximum offset is defined as the difference between the summer and winter set points. Offset is not same as the dead-band which is defined in ASHRAE Standard 90.1 – 2007. See [HVAC Design Manual](#) for room applicability.

Individual Room Temperature Control: A space is defined as individually controlled only when a dedicated air terminal unit (with reheat) and a room temperature sensor/controller serve it. Individual room temperature control is required for all patient treatment and examination rooms, and other healthcare functions and other spaces so identified in the [HVAC Design Manual](#). Listed below are applications where group control can be provided in lieu of dedicated room temperature control:

Office Perimeter Spaces (Group): A single terminal unit can serve as many as three perimeter office rooms located on the same exposure and with identical functions and load characteristics. Exception: A corner office room with multiple exposures shall have its individual room temperature control.

Interior Spaces (Group): A single terminal unit can serve as many as four interior office or patient examination rooms that have identical functions and load characteristics.

Open spaces: Open spaces with exterior perimeter exposure and interior areas shall be zoned such that one dedicated air terminal unit serves the exterior perimeter exposure and another serves interior zones. The exterior perimeter exposure zone is defined as an area enclosing perimeter exposure length and 12 to 15 Feet [3.7 to 4.6 Meters] width. An interior zone does not have perimeter exposure walls.



Plumbing

Water and Waste Systems: Comply with PG-18-10, [Plumbing Design Manual](#) for New Hospitals, Replacement Hospitals, Ambulatory Care, Clinical Additions, Energy Centers, and Outpatient Clinics. Domestic cold and hot water should be piped to all plumbing fixtures and equipment requiring these utilities. A hot water return system should be provided to ensure the design temperature at the farthest fixture.

Plumbing fixtures and drains should be drained by gravity through soil, waste and vent stacks. Special waste should be drained through corrosion-resistant, flame-retardant piping into either a local or centralized acid dilution tank.

Medical Gas Systems: The Guide Plates (Section 4) indicate typical locations and quantities of medical gas outlets to establish the general planning parameters. The design A/E shall verify the medical gas locations and quantities for individual projects.

Seismic: Where required, the plumbing and medical gas systems should be installed with seismic provisions as outlined in the PG-18-10, [Plumbing Design Manual](#) for Hospital Projects and [Master Construction Specifications](#) MCS Section 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

Electrical

Comply with the requirements of PG 18-10, [Electrical and Telecommunication's Design Manual](#) New Hospitals, Replacement Hospitals, Ambulatory Care, Clinical Additions, Energy Centers, and Outpatient Clinics.

Illumination is typically provided utilizing recessed fluorescent luminaries with acrylic prismatic lenses. Recessed fluorescent fixtures with parabolic louvers may be used at the nurse/communication station or offices to control glare on monitor screens. Undershelf fluorescent downlights may be provided above the counter work surface for task lighting. The fixtures typically use F32T8 lamps in compliance with the Energy Policy Act (EPACT 2005). Lamps shall not be high output and shall have a minimum color rendering index (CRI) of 70 and a color temperature of 3500 degrees Kelvin (K), for optimum color rendering in most cases. Color corrected lamps having a CRI of 85 and correlated color temperature between 5000 degrees K and 6000 degrees K shall be used for selected areas such as surgery rooms. Low mercury fluorescent lamps should be used. Leachable mercury may form when fluorescent lamps are disposed of causing pollution of landfills and groundwater. The Environmental Protection Agency (EPA) has established a maximum mercury concentration level. Fluorescent lamps that meet the EPA criteria are known as Toxicity Characteristic Leaching Procedure (TCLP) compliant. Attention needs to be given to illumination as a function of reflectance off walls and ceilings, particularly with color applied, to ensure lighting levels comply with criteria.

VA building lighting energy expenditures are a significant component of overall building energy usage. The lighting systems shall comply with Federal energy policy, the VA Energy Conservation Policy, and [Sustainable Design and Energy Reduction Manual](#).



Lighting intensities shall conform to the VA design criteria, the IES Lighting Handbook and IES publication RP-29-06, "Lighting for Hospitals and Health Care Facilities". Reducing patient illumination levels below established levels is not recommended.

Lighting energy consumption can be reduced in several ways such as reducing lighting fixture count, using highly efficient fixtures, managing when lighting is used and the amount of illumination delivered, using task lighting, and selecting fixtures, lamps, and controls that best meet the needs of the staff and patient occupants. Fluorescent lamp lumen output can be increased by raising the CRI level without increasing lamp wattage. Specific methods may be used to reduce energy consumption including using occupancy sensors, time-clocks, photocells, daylight dimming, building-wide lighting control systems and replacing incandescent dimming with fluorescent dimming. Lighting is typically controlled by wall mounted switches located at the entrance to the room. Larger spaces may utilize multiple switching by separate switches for lighting of individual zones or areas.

- Use wet location light fixtures due to the high moisture and humidity of rooms with showers or tubs for bathing.
- Lighting load densities should be verified for the actual design, as they may vary depending on the room configuration, fixture types, lamps and ballasts used.
- Serve selected light fixtures from the critical branch of the emergency power system to allow for continued operation during a power outage. For facilities that do not require emergency generators provide selected light fixtures with battery ballast.

Power: General purpose duplex receptacles are typically provided on each wall of a room or a space where power is required. Refer to Guide Plates in Section 4. Dedicated duplex or special receptacles are provided for selected pieces of equipment such as refrigerators. Workstations with personal computers (PC's) are typically provided with quadruplex receptacles for the PC, monitor, and printer. Junction boxes are provided for equipment requiring a hardwired connection.

Provide prefabricated bedside patient units (BPBU's) in designated observation and treatment rooms, and post-anesthesia recovery areas. The BBPUs house receptacles for other electrical devices. The number of receptacles, the layout, and the wiring requirements should be coordinated with the specifications (PG-18-1, [Master Construction Specifications](#)).

Duplex receptacles on the critical branch of the emergency power system are provided for selected pieces of equipment such as refrigerators and at certain areas to allow for limited operation during a power outage.

Emergency power requirements are addressed in PG 18-10, [Electrical and Telecommunication's Design Manual](#) and the Guide Plates in Section 4. UPS systems should be provided by hospital and should not be specified in construction documents.

Per VHA Directive 2008-011, operating rooms and cardiac catheterization rooms within VHA facilities are no longer designated as wet locations for electrical safety purposes; therefore, isolated power systems are not required.



Life Safety and Fire Protection

As stated in the VA [Fire Protection Design Manual](#), the Public Buildings Amendment Act (PL 100-678) requires all Federal agencies to follow the latest editions of nationally recognized fire and life safety codes. VA has adopted the National Fire Codes (NFC), except NFPA 5000, published by the National Fire Protection Association (NFPA). Life safety requirements are specifically addressed in the Life Safety Code, NFPA 101. Fire protection features not addressed by the NFC should be designed to comply with requirements of the latest edition of the International Building Code (IBC). For guidance on compliance with other Codes and Standards, refer to PG-18-3 [Design and Construction Procedures, Topic 1](#).

Occupancy classifications are defined in NFPA 101 and as follows:

Outpatient Clinic	New Business Occupancy, Chapter 38
Administrative Offices	New Business Occupancy, Chapter 38
Ambulatory Surgery	New Ambulatory Health Care, Chapter 20
Mixed Occupancies:	Buildings containing mixed occupancies which are not incidental to the primary occupancy shall comply with the most restrictive requirement of the occupancies involved, unless separated by barriers having fire resistance ratings for the occupancies involved as required by NFPA 101.

When Ambulatory Surgery facilities have 4 or more patients incapable of taking action for self-preservation under emergency conditions as defined in NFPA 101, then all or part of the facility must be classified as an Ambulatory Health Care Occupancy. Examples of Ambulatory Health Care Occupancies include surgery centers, dialysis centers, imaging centers, and cardiac catheterization centers. Multiple occupancies in the same building shall be considered as mixed, or shall be separated as required by NFPA 101.

Energy Conservation and Sustainable Design

The need to conserve energy is mandated by the Federal Government by both Executive Order and Federal Law. In addition, 19 Federal Agencies have signed a Memorandum of Understanding (MOU) outlining specific goals and targets for energy conservation and sustainable design. The VA is one of the signatory agencies. Refer to [Sustainable Design and Energy Reduction Manual](#) on VA Technical Information Library (TIL), and [HVAC Design Manual](#) for Hospital Projects for detailed information and requirements.

Communications / Special Equipment

Follow criteria in PG-18-10, [Electrical and Telecommunication's Design Manual](#) for communications and special systems.

Telephone outlets are typically provided at each workstation or in each room.

Automatic Data Processing (ADP) or computer outlets are typically provided at each workstation with a personal computer (PC) and/or a printer.



Nurse call and code one system is provided for the ambulatory care department, and is PC based consisting of patient call stations, staff stations, duty stations, dome lights and head-end equipment located in signal closet. The actual system configuration is dependent on the overall layout of the department and should be coordinated with the functional design.

Television outlets are provided at selected areas such as waiting rooms and the chemotherapy treatment cubicles.

Physiological Monitoring: Outlets for physiological monitoring are provided at selected locations such as observation and treatment cubicles, and post-anesthesia recovery.

Public Address: Provide a system in accordance with [Master Construction Specifications](#) MCS Section 27 51 16, PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS. Public address system is typically part of the telephone system. Speakers are typically located in corridors and public spaces. The actual system configuration will depend on the overall design layout and functional requirements.

Security Duress Alarms: Duress alarm systems are typically provided where staff comes in contact with a patient and are designed to provide emergency assistance, control, and monitoring.

Waste Management

Medical waste is generated in exam and treatment spaces where it is bagged, collected and transported to the soiled utility rooms. There it is held in separate containers pending transport to the medical waste handling facility or disposal by contract.

General waste is generated in all spaces and is held in containers for collection and/or sorting. Disposal is usually by contract.

Recycling: Methods for sorting, collecting, transporting and disposing of recyclable products must be specifically analyzed for each facility and location. The optional use of disposable and reusable products is an important consideration in recycling and waste disposal alternatives.

Soiled linen: Soiled reusable linens may be generated in exam rooms, treatment spaces and patient and staff gowning areas. Soiled linens are collected in carts or hampers (depending on volume) in the soiled utility rooms or soiled linen rooms pending transport to the laundry facility. Disposable linens are included with general recyclable waste or medical waste as appropriate.

Utensils: Reusable utensils include bed pans, urinals, emesis basins and other stainless steel items which are used in exam and treatment areas and then transported to the soiled utility room. There they are reprocessed if steam washers are available or collected for transport to the Sterile Processing Department for reprocessing.

Space requirements will vary with the selection of waste collection and recycling methods and systems, and space requirements need to be analyzed for each optional method or system considered for new and existing facilities. While space needs are determined by VA Space Planning Criteria on a departmental basis, space provisions for waste collection needs to be distributed and dedicated to a variety of uses to accommodate the implementation of the system and method selected.



Transportation

Patients arrive at their appointed clinic via private or public transportation. Convenient access from patient parking and primary care entrance should be provided. Parking demand for number of spaces, both standard and handicapped, is governed by VA criteria. Consult appropriate VA management personnel for guidelines in this regard.

Wayfinding:

- Clear site and facility organization and directional signage assist in directing the patients to their destination.
- If Pulmonary Medicine facilities are located on other than main entrance levels, direct access from public elevators should be provided.
- Techniques such as clear access routes, public spaces, landmarks and signage to facilitate wayfinding should be used.

Staff access should be separated from patient entries, waiting, and holding areas. Staff lounge and locker areas should be located away from patient traffic.

Records are centrally maintained and may be distributed by an automated distribution or electronic retrieval system to be selected on a project basis. Ambulatory Care volumes are determined by sub department and specialty clinic. In larger facilities pneumatic tube or automated box transport system for the distribution of medical records and work orders may be appropriate. These transport modes should be located where shared use is possible in order to provide economical access for all clinics.

Specimens are collected within the clinics and/or at a central Lab Collection Area and are transported to the Pathology Labs. The most effective means for maintaining specimen quality and providing efficient access must be incorporated.

Pharmaceuticals including narcotics are transported by pharmacy personnel to the individual clinics in locked carts. Narcotics are delivered to a narcotics locker, which is usually located in a clean supply or patient prep area, and is remotely alarmed to the nearest nursing station.

Materials are transported by service elevators and through corridors separated from patient traffic where possible.

- Clean supplies are transported by exchange carts which are stored in the Clean Supply Room.
- Deliveries are normally scheduled during hours when patient visits are not scheduled.

Linen: Disposable linens are delivered as part of clean supplies.

Sterile supplies are accommodated by prepackaged or disposable items that are delivered with clean supplies.

Food: Nutrition and Food Service (Dietetics) deliveries to Ambulatory Surgery are limited to nourishments provided at post anesthesia recovery and areas where patients are held for observation and/or recovery.



Unless the program includes Canteen Service, food service is not provided at Outpatient Clinics. In most cases, food service should be limited to vending facilities. Vending machines are replenished with pre-packaged food and beverage items by Canteen Service or contract provider from carts or hand trucks.

When expanded food service is included in the functional program; determine the food service methodology to be used by Canteen Service or the contract provider. Typically, food should be transported from the dock area to a receiving/breakdown area, then to dry, refrigerated, or frozen storage as appropriate. Analyze waste generated at receiving, preparation, serving, dining, and ware washing areas to determine appropriate transport and holding areas pending final disposal.

Waste from food service is collected by housekeeping staff and transported to the Soiled Utility Rooms and trash collection areas where it is disposed of as indicated by the Waste Management narrative.

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Section 3

Functional Diagrams

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General Considerations

Space needs and clinical programs can be anticipated to change during the life of the building. In order to facilitate changes in function, minimize remodeling work, and to allow for greater interoperability in the use of Clinic spaces, the use of modular spaces and designs is encouraged. The following diagrams in this section illustrate some typical concepts for the development of basic Exam / Treatment (E/T) modules. Once the basic module is established, it may be repeated for larger, multiple module clinics.

The space program for each Module will include Core Spaces (including Reception/Control, Exam Rooms, Intake/Exit Interview, Nurse Triage, Treatment and Procedure Rooms, Patient Toilets, Nurse Station, Medication Room, Staff Toilet, Clean Supplies, Soiled Utility, and Conference and Consultation) and Support Spaces (including HACs and Clerical Offices).

The number of exam rooms and modules is determined from mission, staffing and workload projections using the criteria and formulas in Chapter 262. Typical E/T modules will have 10 to 19 exam rooms and support spaces. The diagrams in this Section depict the relationships of the Core and Support spaces in a typical E/T Module in the Outpatient Clinic. Specialty Clinics, such as Chemotherapy, Dermatology, Gastroenterology, etc., will require additional specialized treatment and support spaces as listed in the space program.

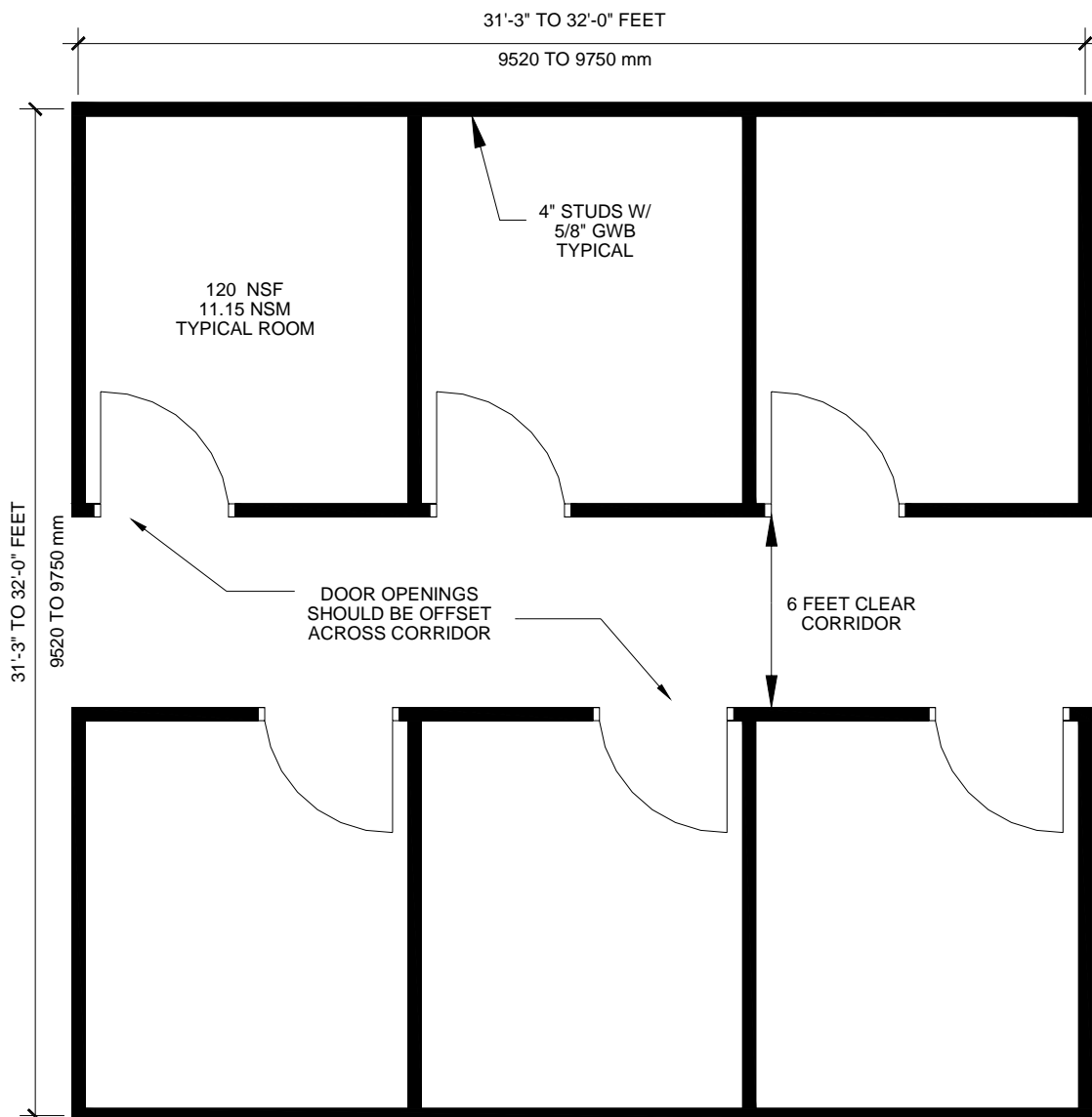
The most common space size in the Outpatient Clinic should be a unit of 120 net square feet (examination rooms, offices, and many support spaces). Corridors used by patients should be at least 6 feet in width.

Accordingly, the planning module used to develop the Guide Plates is based on a room of approximately 10 by 12 feet (see diagram on Page 3-2). Allowing for partition widths, six typical (or unit) rooms and a 6 foot wide corridor will fit in 31'-3" to 32'-0" square grid. This is the module used in developing this Design Guide and is intended as a starting point for consideration during design. It is not intended to restrict the use of other suitable modules or structural grids. The A/E shall coordinate the final module with the structural system selected for the project.



Net and Departmental Gross Area

Net Area (Net Square Feet, NSF; or Net Square Meters, NSM) is the actual floor area in a room or functional area (finish to finish) that can be used by people, furnishings, or equipment. Department Gross Square Feet (DGSF) includes, in addition to the Net Area, partitions and circulation internal to the functional area or department. The net to department gross factor (NTDG factor) adopted by VA for Ambulatory Care is 1.65. **The 1.65 factor anticipates that internal circulation must be added to connect functional areas and individual rooms.**

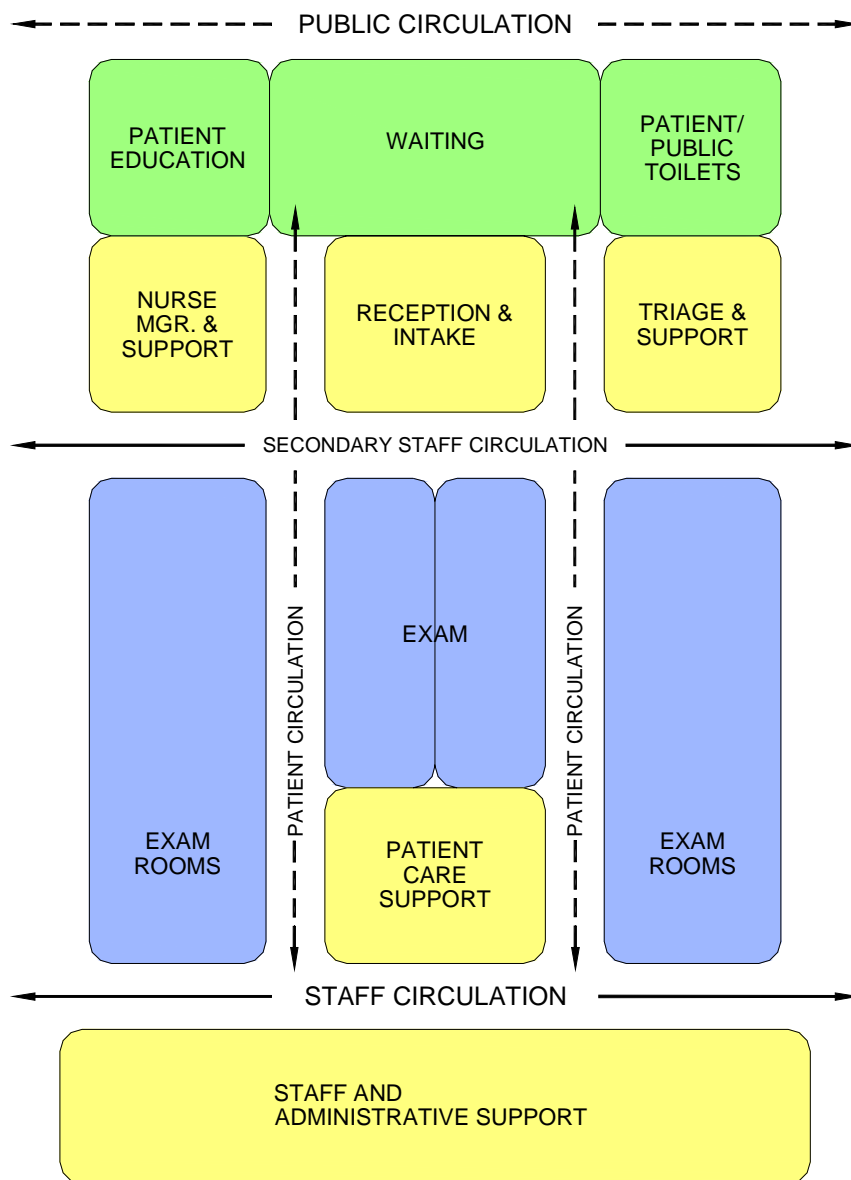
Planning Module



LEGEND FOR FOLLOWING FUNCTIONAL DIAGRAMS:

	PATIENT OR "PUBLIC" SPACES		= PATIENT CIRCULATION
	STAFF SUPPORT		= STAFF CIRCULATION
	EXAM ROOMS		

Clinics Single Module Relationship Diagram



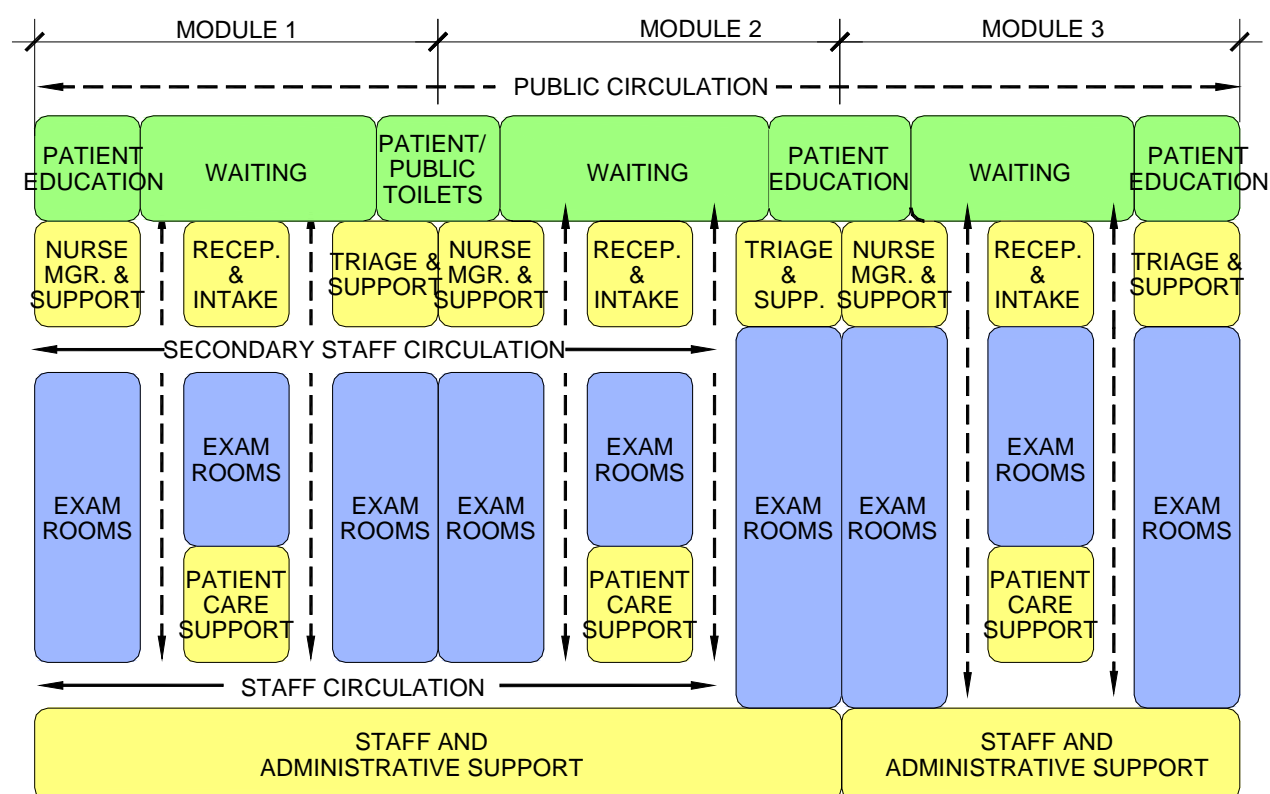
Typical Exam/Treatment Module is based on 10 to 19 exam rooms and support spaces.

Rooms are arranged along double loaded corridors.

"Public" functions are located at the "front" of the module. Most staff offices and common support functions are located at the "back" of the module.

Patient access to the exam/treatment areas is controlled through the Reception and Triage functional areas.

Clinics Multiple Module Relationship Diagram



Typically Outpatient Clinics will have several Primary and Specialty Care modules.

Exam/treatment modules may be arranged with common circulation as shown for Modules 1 and 2. This may provide planning and operational efficiencies from shared space or equipment (such as "overflow" into an adjacent module on busy clinic days); and can help maintain efficient staff and support circulation separate from public routes.

Some modules (specialty clinics in particular) may need to limit "through traffic" and should be kept distinct from adjunct modules as shown by the relationship between Modules 2 and 3.



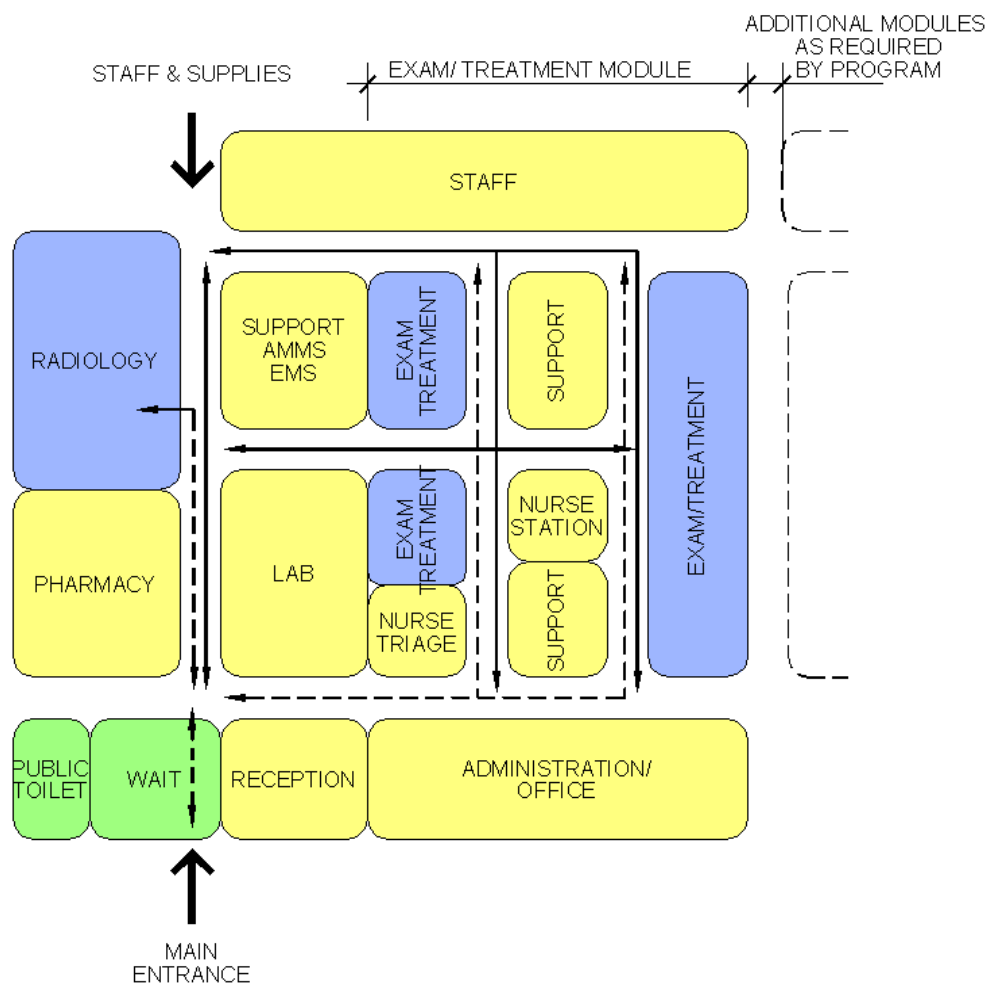
Community Based Outpatient Clinic (CBOC)

The functional areas included in the space program for a CBOC will vary with the medical program, workload projections, staffing, and the availability and capacity of existing services in the parent Medical Center. This Diagram illustrates the relationships of the functional areas in a typical Clinic which may include areas for Reception, Patient Care, Support, and Staff and Administration. When included in the medical program, CBOCs may be expanded to contain limited diagnostic functions (Laboratory and Radiology) and Pharmacy.

Clearly identify the Main patient/public entry to the Clinic; reinforce the entry sequence with the design of site circulation systems. Staff entry and circulation should be separated from patient circulation if possible.

Lab and Pharmacy can expect high traffic and should be located convenient to entry/waiting.

Administration ("Business Office") functions should be located near reception at the "front" of the Clinic. Most other staff offices and support functions can be grouped to the "back" of the Clinic.



Satellite Outpatient Clinic (OPC)

The functional areas included in the space program for a Satellite OPC will vary with the medical program, workload projections, and staffing. This diagram illustrates general conceptual relationships for the functional areas in a typical Clinic. **The actual sizes of the functional areas and departments will vary with each project.** Therefore, the design and planning for each Satellite OPC must be tailored to the medical and space programs approved for the clinic. **All of the functional areas shown may not be included in each project.**

The following diagram shows all functions on a single level. Depending on the program and site, this may be appropriate for some clinics. Two or more stories will generally be more appropriate for larger clinics and restricted sites.

Clearly identify the Main patient/public entry; reinforce the entry sequence with the design of site circulation systems. Staff entry and circulation should be separated from patient circulation if possible.

Individual entries may be appropriate for some specialty clinics or departments including Ambulatory Surgery and Mental Health Clinics.

Service and dock areas should be located away from patient and staff circulation.

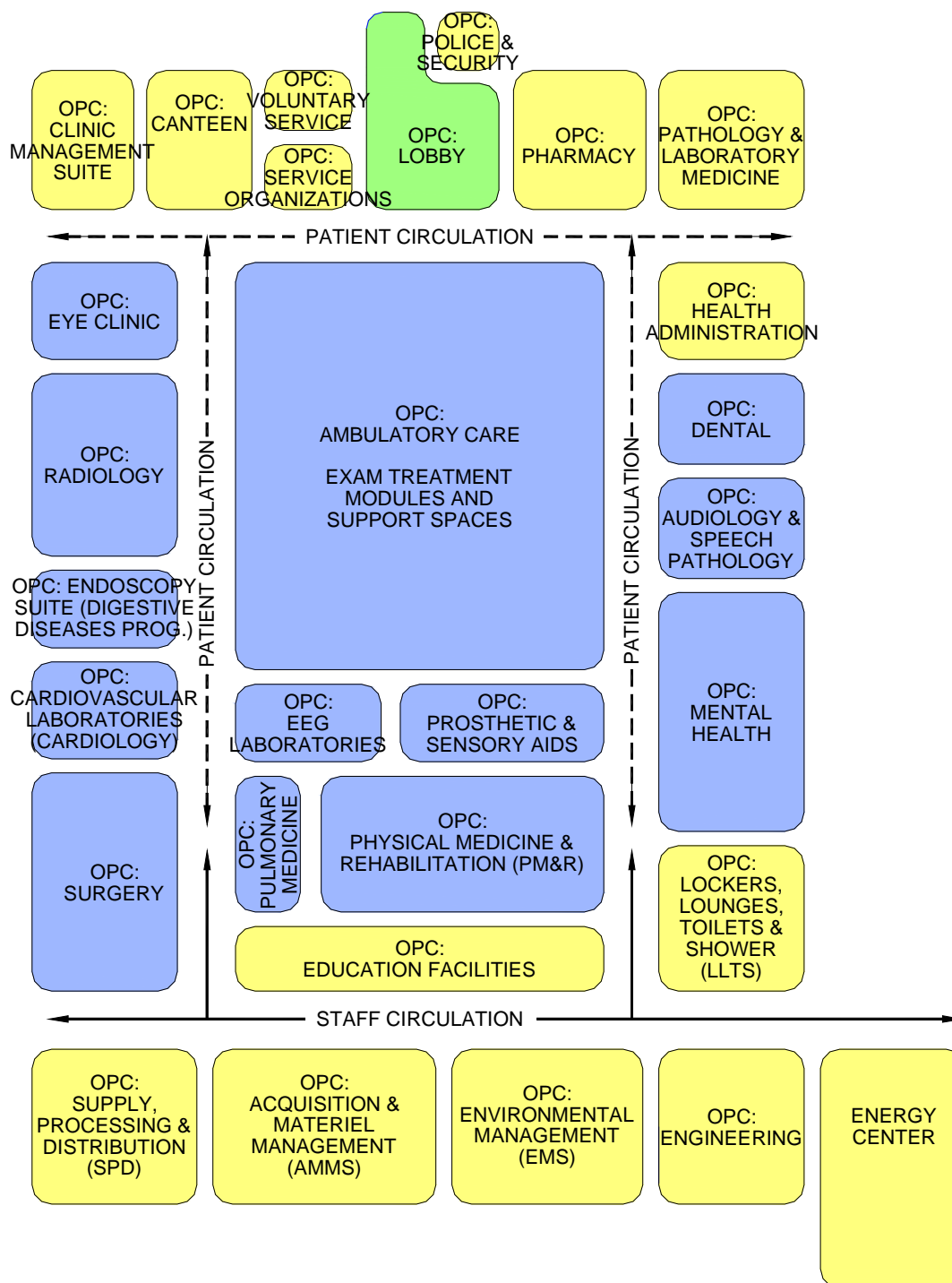
In general, functions with the greatest workloads and those that can be expected to be used by most patients on each visit (such as Pharmacy and Canteen) should be located convenient to the main entry, or on the first floor in multi-story buildings.

Support functions can be grouped to the “back” of the clinic. Acquisition and Materiel Management (AMMS) requires loading dock access and has a strong adjacency with Supply, Processing and Distribution (SPD). Similarly, SPD has a very strong adjacency with Ambulatory Surgery. If SPD and Surgery are not on the same level, dedicated cart lifts (dumbwaiters) or service elevators should be provided as appropriate for the volume of clean and soiled materials, supplies, and equipment.

Larger buildings will usually require an Energy Center (or central plant) to accommodate the necessary building service equipment including boilers, chillers, electrical gear, and emergency generators. The Energy Center and Engineering spaces should be located near the service area and dock. This diagram is intended to represent the functional relationships in a typical clinic and **does not** indicate the computer room, electrical and telephone/data rooms, and other essential building service spaces that must be provided. Designers shall make appropriate provisions for building services in the planning of each clinic building.



Satellite Outpatient Clinic (OPC)



OPC Ambulatory Surgery

The functional areas included in the space program for the Ambulatory Surgery component will vary with the medical program, types of procedures, workload projections, staffing, and the availability and capacity of existing services in the parent Medical Center.

Layout of the Suite—The following diagrams illustrate the typical relationships of the **major functional areas** and **do not show every individual room** from the space program. Separate diagrams are provided to more clearly illustrate Patient Flow, Staff Flow, Clean Supply and Equipment Flow, and Soiled Flow in the surgery suite. Individual room layouts are detailed in the Guide Plates in Section 4.

The Main Entrance to the Ambulatory Surgery Suite may be from a public corridor within the clinic building, or directly from the exterior. Staff and service access is preferably from a dedicated corridor that may also serve other departments in the clinic.

Operating and procedure rooms are arranged around a clean core and open onto the semi-restricted corridor (SRC or peripheral corridor).

SPD is shown on the same floor as the Ambulatory Surgery Suite. Clean and sterile supplies should be moved as directly as possible to the clean core. When SPD must be located on another floor, there should be a dedicated elevator or cart lift (dumbwaiter) from the clean side of SPD directly to the clean core.

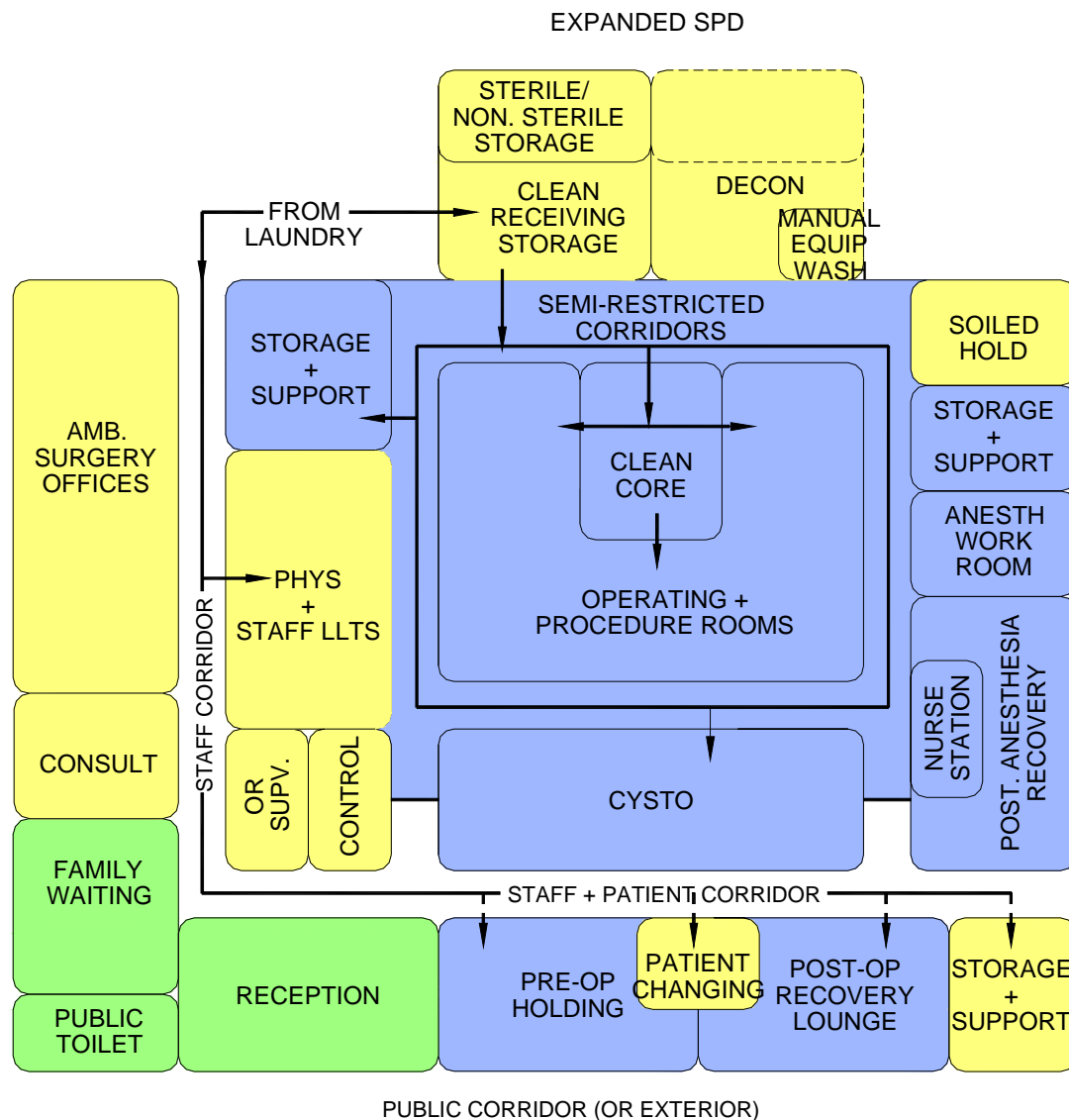
If the program does not include an expanded SPD service, storage space for clean and sterile supplies must still be provided on site. Refer to Guide Plates for SPD: Basic Service and Manual Equipment Wash. Space must be provided to hold soiled equipment and linens pending transport to the off-site processing facility.

If an expanded SPD is provided, soiled instruments and equipment would be taken to Decontamination in SPD to begin processing.

Staff and Physician lockers are shown opening onto the semi-restricted corridor. This would be consistent with design trends that place the scrub sinks off the SRC. Another acceptable alternative is to locate the scrub sinks off the clean core. In that case, locate the locker rooms so that the surgical team members go directly to the clean core after changing into scrubs.



Clean Supplies And Equipment Flow Diagram

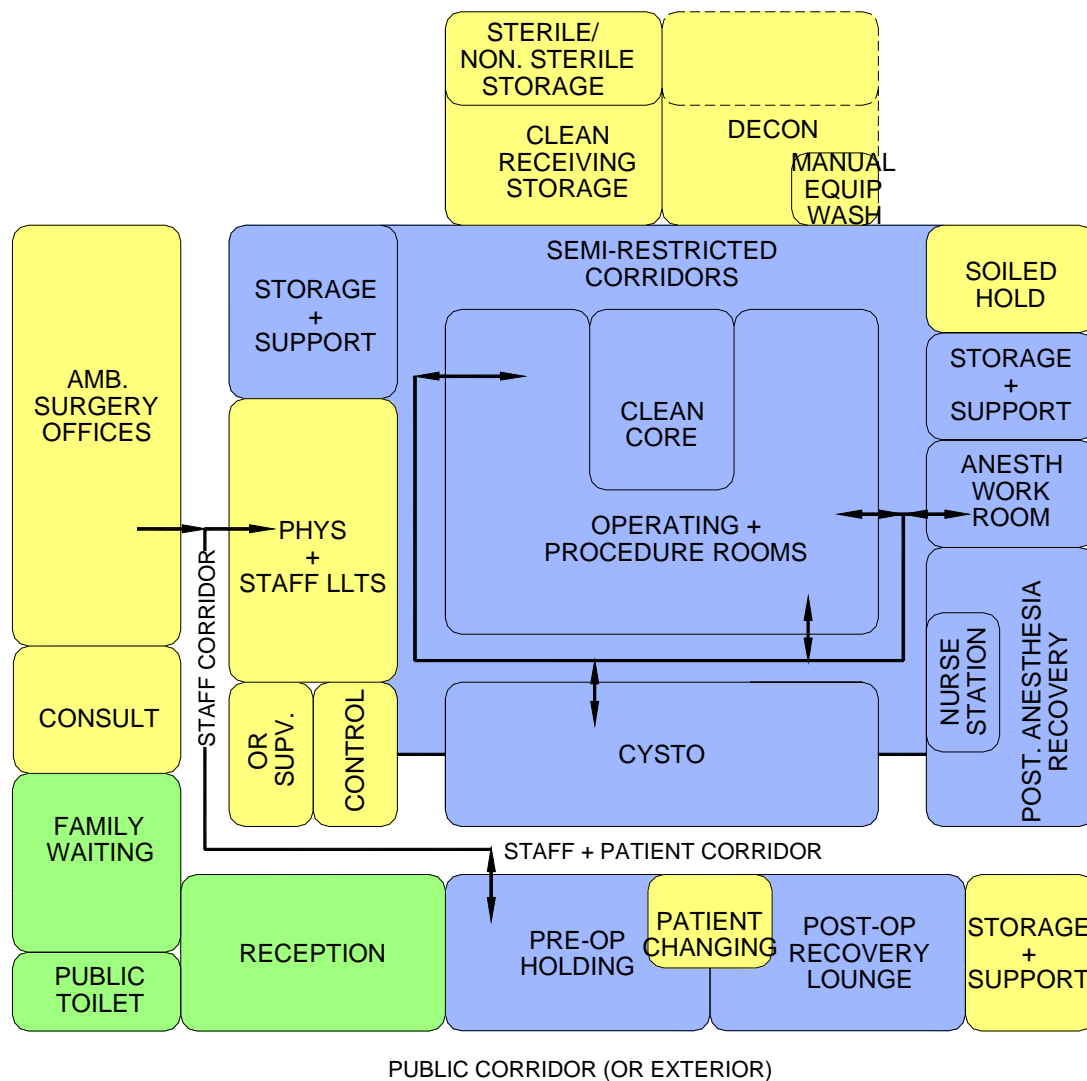


Clean supplies and equipment are transported in case carts from the clean side of SPD to the Clean Core where they are staged prior to use in the Operating or Procedure rooms.

Clean items are also transported in the SRC to the Cysto Suite, Anesthesia workroom, PAR, and storage and support areas,

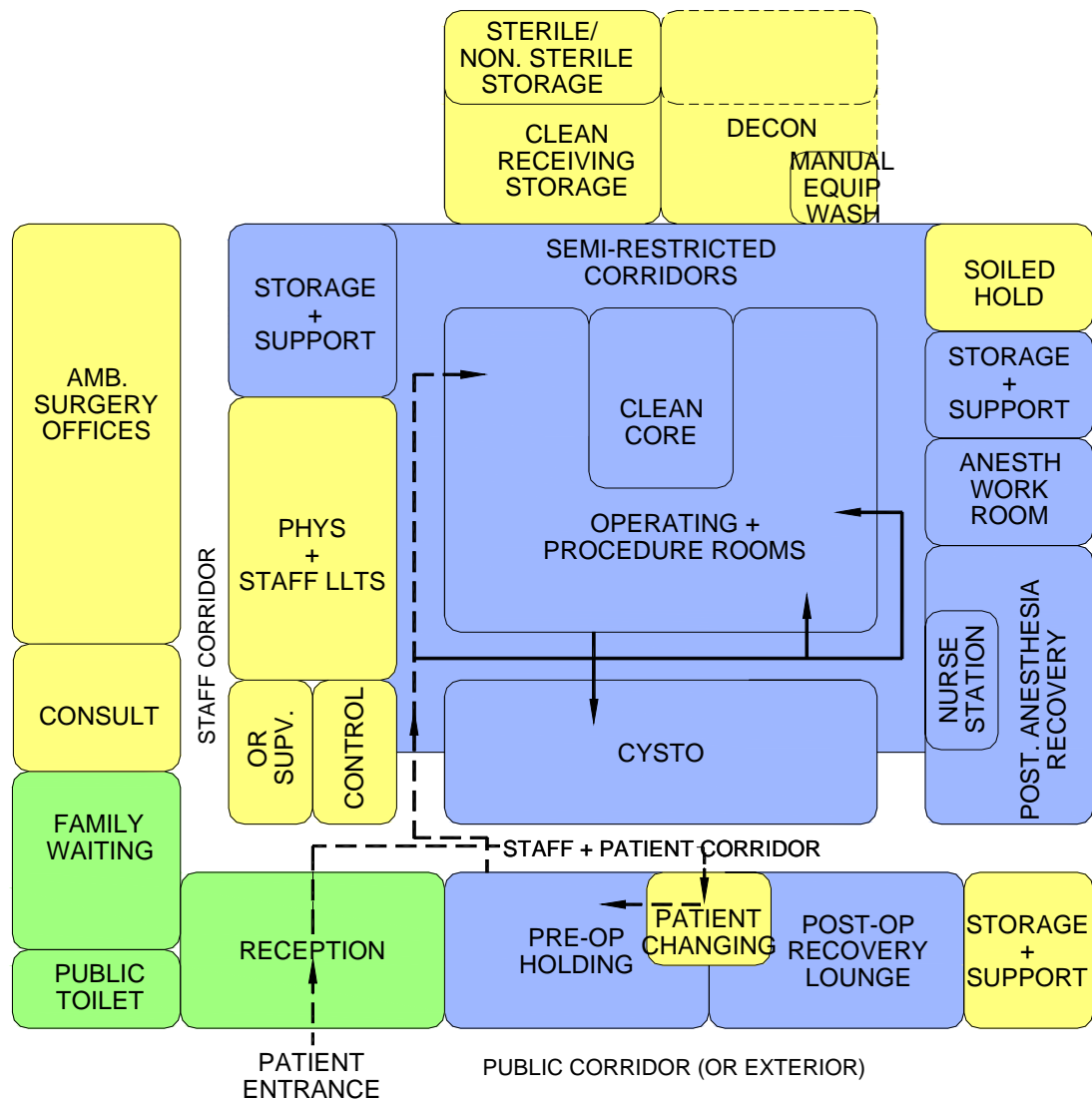
Clean linens (scrub suits, gowns) are transported in carts from Laundry (or clean holding) to the Locker Rooms, Patient Changing, and clean side of SPD.

Staff Flow Diagram—Pre OP



The members of the surgical team circulate in the staff corridors between their offices, Lounges, Pre-op Holding, or other areas in the Clinic. The team changes into scrubs in the Locker Rooms prior to entering the SRC and the Operating or Procedure rooms.

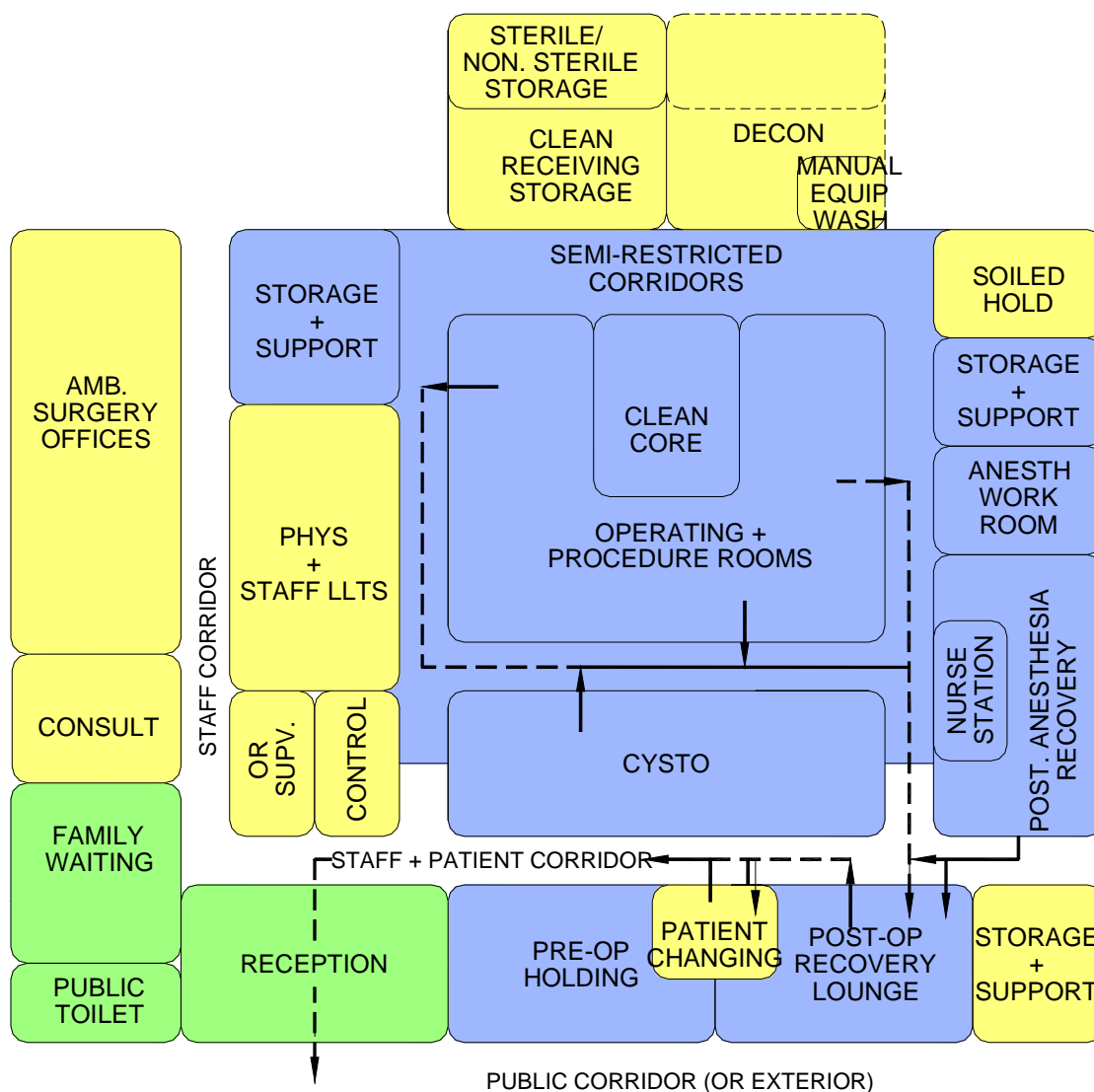
Patient Flow Diagram—Pre OP



Patients may enter the Ambulatory Surgery Suite from a public corridor within the Clinic, or directly from the exterior of the building. After checking in at Reception, patients proceed to Changing and Pre-op Holding.

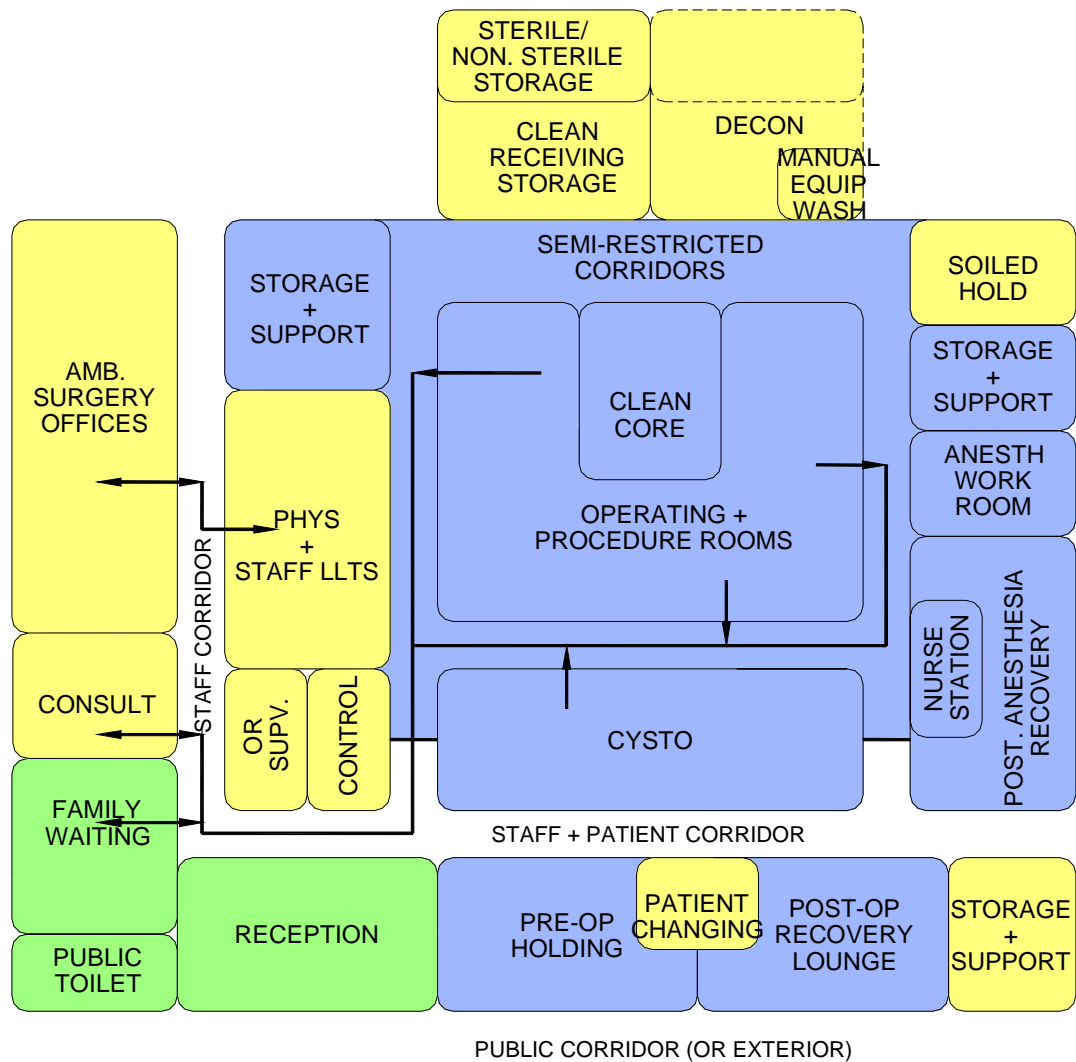
Patients are transported from Pre-op Holding to OR Control and then to the Operating or Procedure room through the SRC.

Patient Flow Diagram—Post OP



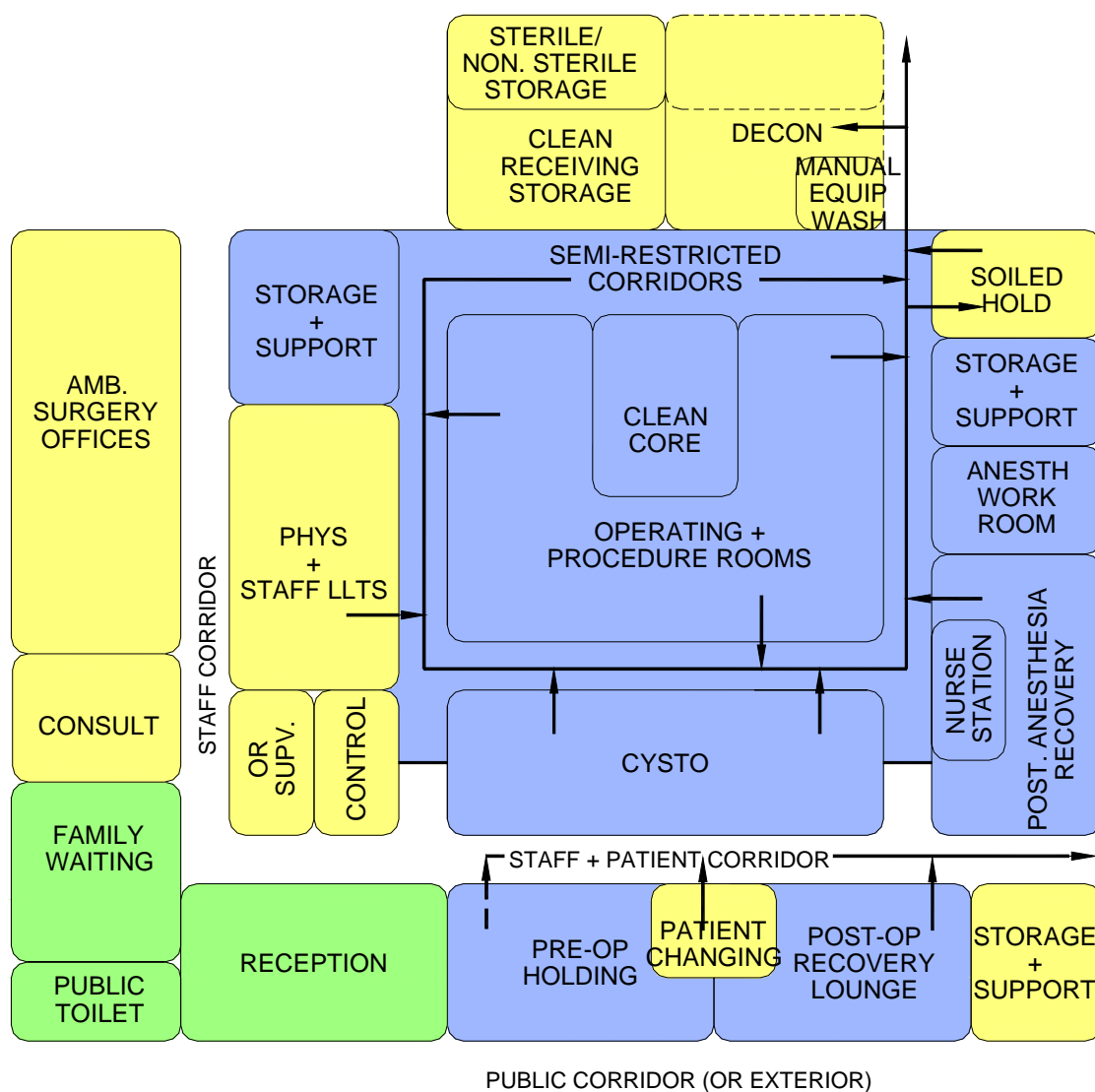
Post operative patients are transported from the Operating or Procedure room through the SRC and to either the P.A.R. or Post-op Recovery Lounge. When patients meet the criteria for discharge, they can proceed to Changing and then exit through Reception.

Surgical Staff Flow Diagram—Post OP



The surgical team leaves the Operating or Procedure room through the SRC.

Soiled Supplies And Equipment Flow Diagram



Soiled materials leave the Operating and Procedure Rooms by the SRC. Medical waste is bagged and taken to Soiled Holding prior to disposal. Soiled equipment and instruments are transported to Decontamination in SPD for reprocessing. Soiled linens are transported from the Operating and Procedure rooms, PAR and Recovery Lounge, Changing, and Locker rooms to appropriate Holding rooms prior to return to Laundry.

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Functional Relationships Matrix

The following diagram presents the proximity relationships of the various functional areas or spaces found in outpatient clinics in a matrix format.

Proximity Codes For Diagram

The degree of proximity that is desirable with other departments or areas that share a functional relationship with the Outpatient Clinic is indicated by a scale of 1 to 4 (1 representing the greatest level of adjacency). An "X" entered in the diagram represents a relationship where separation is desirable for the departments or areas in question.

Code	Proximity Relationship
1	Very Strong: Adjacent
2	Strong: Close, same floor
3	Moderate: Convenient, different floor acceptable
4	Weak: May be separated, limited traffic or communication necessary
X	Separation required or desirable

Functional Relationships Diagram

	Volunteer Service	Surgery Service	Supply, Processing, and Distribution	Service Organizations	Radiology Service	Pulmonary Medicine	Prosthetic and Sensory Aids Service	Police and Security Service	Physical Medicine and Rehabilitation Service	Pharmacy Service	Pathology and Laboratory	Outpatient Psychiatric Clinics	Medical Administration Service	Lockers, Toilets and Showers	Lobby	Eye Clinic	Environmental Management Service	Engineering Service	Endoscopy Suite	EEG Laboratory	Education Facilities	Dental Service	Clinic Management Suite	Cardiovascular Laboratories – Cardiology Clinic	Canteen	Audiology and Speech Pathology	Ambulatory Care (Exam / Treatment Modules)	Acquisition and Materiel Management Service
Acquisition and Materiel Management Services			2				3									3												-
Ambulatory Care	3	3	3	1	2	4	3	2	3	1			1		1	1				3		3	4	2	2	2	-	
Audiology and Speech Pathology					X		3	2	3	X	3	3	X		X			X		X		3			X	-		
Canteen	3	X			X		2				X	4	3												-			
Cardiovascular Laboratories - Cardiology Clinic	3	3	3		3	2	4											2		4			3	-				
Clinic Management Suite		4			4	3		4		4		4	4		3								-					
Dental Service			3				4			4			3				4	4					-					
Education Facilities													3									-						
EEG Laboratory	4	3	4			4					4									-								
Endoscopy Suite		2	2																-									
Engineering Service		X	3		3	2		3										-										
Environmental Management Service			3		3			3					3				-											
Eye Clinic			3		2		3			2						-												
Lobby	3	X		2			1	1		2		4			-													
Lockers, Toilets and Showers														-														
Medical Administration Service					2		2	2		2	3		-															
Outpatient Psychiatric Clinics								3				-																
Pathology and Laboratory Medicine	3				X						-																	
Pharmacy Service	3	3	3		2		3	2		-																		
Physical Medicine and Rehabilitation Service							2		-																			
Police and Security Service		3	3					-																				
Prosthetic and Sensory Aids Service		X					-																					
Pulmonary Medicine		4	4		3	-																						
Radiology Service		3			-																							
Service Organizations	2			-																								
Supply, Processing, and Distribution		1	-																									
Surgery Service		-																										
Volunteer Service	-																											



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Section 4

Design Plates, Standards, Equipment Lists

Page

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Guide Plates

The Guide Plates are organized by Functional Area and then by room name. Guide Plates that apply to more than one functional area are at the front of this section.

See Appendix in Section 5 for Index of Guide Plates by all functional areas including cross references by room designations (SEPS code) used in the Space Planning Criteria.

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Introduction

The Design Guide Plates included with this publication are intended as general representations of typical furniture, equipment, functional and personnel space needs. The design Guide Plates were developed as a design tool to assist the Project Team in understanding the choices to be made during design; and to assist designers in understanding VA's functional requirements for Ambulatory Care Clinics. The Guide Plates are not intended to be project specific and are not meant to limit design opportunities.

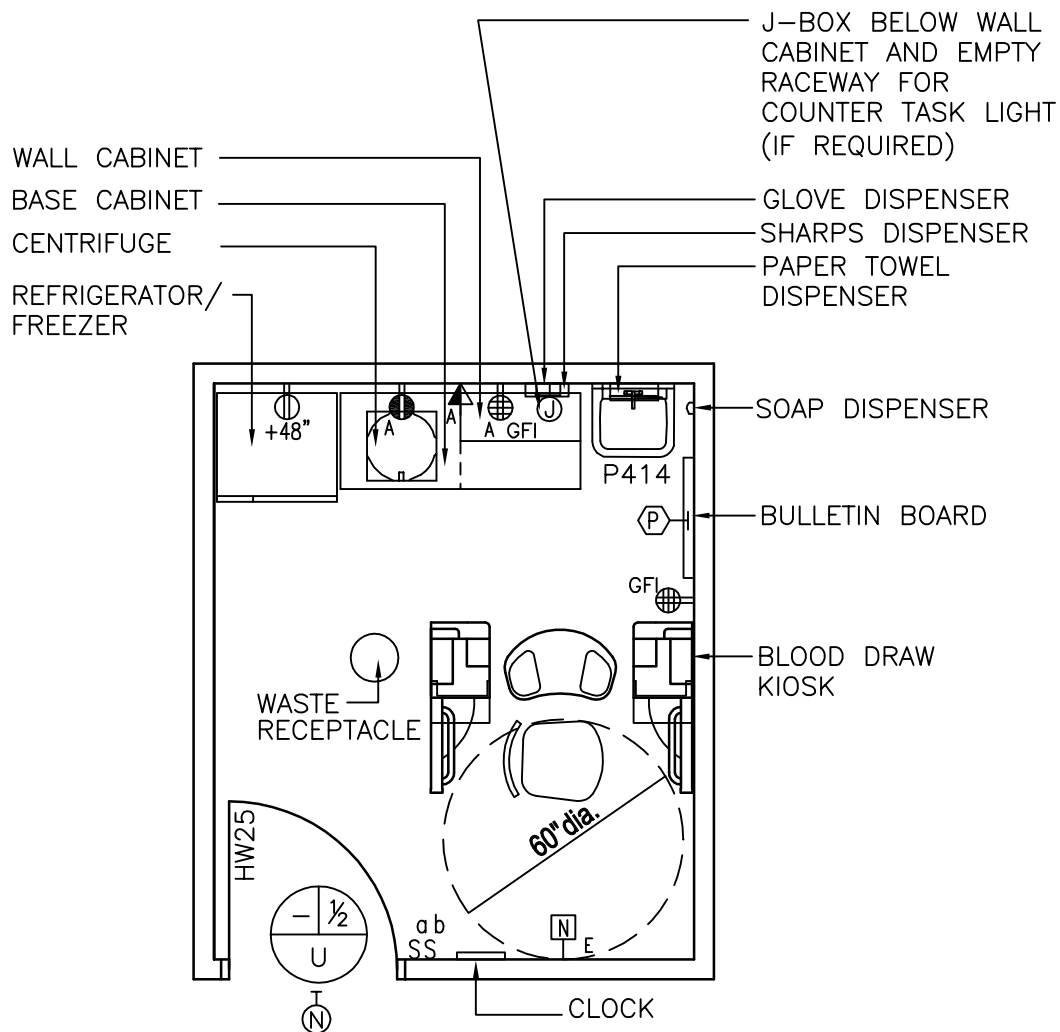
While plates are provided for a majority of spaces required in an Outpatient Clinic, it is not possible to foresee all possible variations or future requirements. The project-specific space program shall be used as the basis for individual project design.

In all cases the Guide Plates must be reviewed against project criteria and any special requirements. Users shall refer to other VA criteria and standards (listed in Section 1) when information is either too detailed or too broad to be included in the Guide Plates. Equipment requirements and technologies are continually evolving. Equipment manufacturers shall be consulted for actual dimensions and utility requirements.

See Section 5 for a cross reference to the Room Names and SEPS designations used in Chapter 265 of the Space Criteria.

Blood Draw (LBVP1)

Floor Plan



120 NSF/ 11.2 NSM (SHOWN ABOVE)

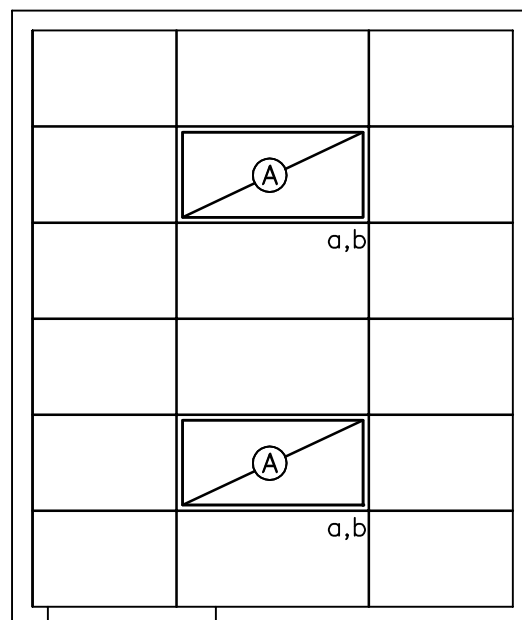
ONCOLOGY LAB SIMILAR REDUCE TO 80 NSF/ 7.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$

M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Blood Draw (LBVP1) Reflected Ceiling Plan



120 NSF/ 11.2 NSM (SHOWN ABOVE)

ONCOLOGY LAB SIMILAR REDUCE TO 80 NSF/ 7.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Blood Draw (LBVP1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--

- Notes:
- 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
 - 2) The foot-candle level is average maintained.
 - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 - 5) Fluorescent nurse call light.
 - 6) Fixture description for alternate 80 NSF room is the same as described in Note 1 above. Orient two fixtures at 90° to layout for 120 NSF room. Reduce fixture wattage to approximately 65% that required for 120 NSF room.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



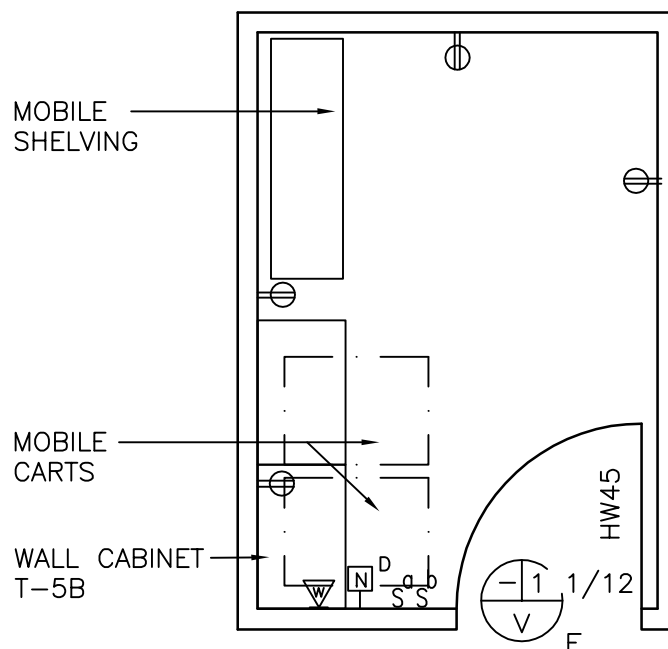
Blood Draw (LBVP1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030	Top 10A	1	CC	Counter top, high pressure plastic laminate, decorative, over plywood or particle board core, 1-1/4" (25 mm) thick (PG-18-1, MCS 12 36 00)
C03F0	VL4	1	CC	Cabinet, under counter, with 2 drawers, 2 hinged doors and 1 adjustable shelf, 30" x 22" x 31" (750 mm x 550 mm x 775 mm) for floor mounted add, 5" (125 mm) toe base (PG-18-1, MCS 12 31 00, 12 32 00)
	VL5	1	CC	Cabinet, under counter, with 4 drawers, 1 hinged door and 2 adjustable shelves, 30" x 22" x 31" (750 mm x 550 mm x 775 mm) for floor mounted add, 5" (125 mm) toe base (PG-18-1; MCS 12 31 00, 12 32 00)
CE040	VL25	1	CC	Cabinet, wall, with sloping top, 2 glazed sliding doors and 2 adjustable shelves, 30" x 13" x 30" (750 mm x 325 mm x 750 mm) (PG-18-1, MCS 12 31 00, 12 32 00)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station with corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M1410		1	VV	Kiosk, blood draw or chair, laboratory, blood drawing with storage
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm) Note: F3010 is 48" x 48" (1200 mm x 1200 mm) and F3025 is wood frame.
R7250		1	VV	Refrigerator/freezer, 120 volt, domestic, approx. 31" x 28" x 66" (775 mm x 700 mm x 1650 mm)
L1350		1	VV	Centrifuge, non-refrigerated, bench model, 120 volt, approx. 19" H x 16" W x 19" D (480 mm H x 400 mm W x 480 mm D)
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container/glove dispenser



Clean Utility Room (UCCL1) Floor Plan



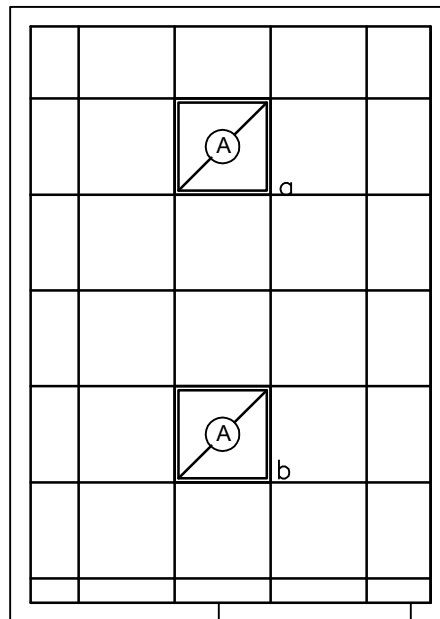
Minimum: 100 NSF/ 9.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Clean Utility Room (UCCL1) Reflected Ceiling Plan



Minimum: 100 NSF/ 9.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Clean Utility Room (UCCL1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB (SC)
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) Recessed 2' x 2' (600 mm x 600 mm) fluorescent light fixture with acrylic prismatic lens, T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	Not Required
Occupancy:	Not Applicable
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Clean Utility Room (UCCL1)

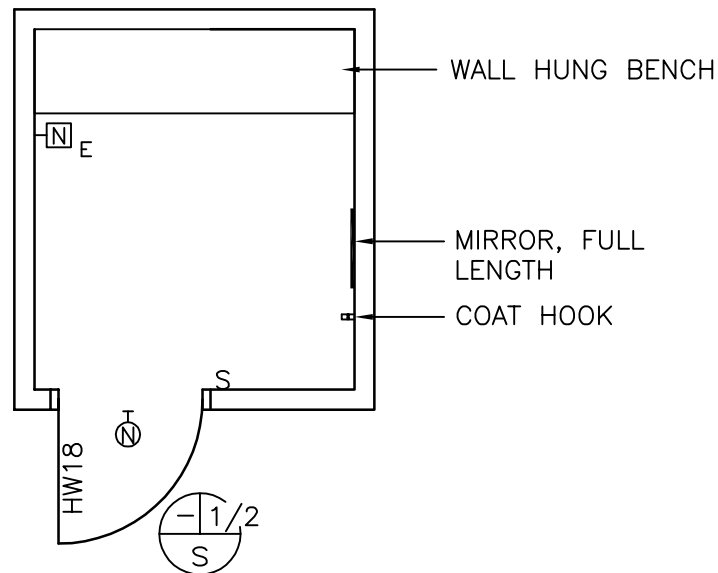
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
CD040	T-5B	AR	CC	Cabinet, wall, with sloping top, 2 hinged doors and 2 adjustable shelves, 36" x 22" x 42" (900 mm x 550 mm x 1050 mm) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Nurse call duty station (PG-18-1, MCS 27 52 23)
M2050		AR	VV	Shelving, storage, mobile, steel, rod shelf, open style with 5 adjustable shelves
E0945		AR	VV	Cart, mobile with adjustable shelves, 27" x 36" x 38" (675 mm x 900 mm x 950 mm)



Dressing Room (DR001)

Floor Plan



Ortho; Radiology: 50 NSF/ 4.6 NSM (Shown above)

Endoscopy: 60 NSF/ 5.6 NSM

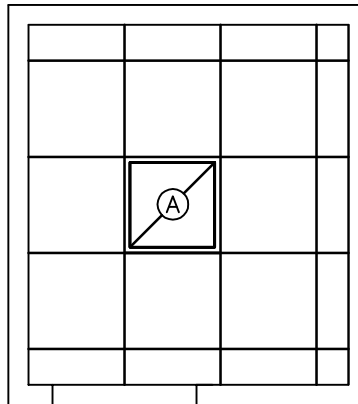
SCALE $\frac{1}{4}" = 1'-0"$

M2 1 0 1 2 4Ft

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Dressing Room (DR001)

Reflected Ceiling Plan



Ortho; Radiology: 50 NSF/ 4.6 NSM (Shown above)
Endoscopy: 60 NSF/ 5.6 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Dressing Room (DR001)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--

- Notes:
- 1) Recessed 2' x 2' (600 mm x 600 mm) fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).
 - 2) The foot-candle level is average maintained.
 - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 - 5) Fluorescent nurse call light.
 - 6) Fixture description for alternate 60 NSF room is the same as described in Note 1 above. Locate fixture centrally in the room. Fixture wattage should be the same as required for 50 NSF room.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	Not Applicable
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	1
AC Load-(Equipment):	No
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> 1) Ventilate this cubical by drawing conditioned air from the adjoining spaces and returning it back to the system. Conditioned air need not be supplied. 2) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Dressing Room (DR001)

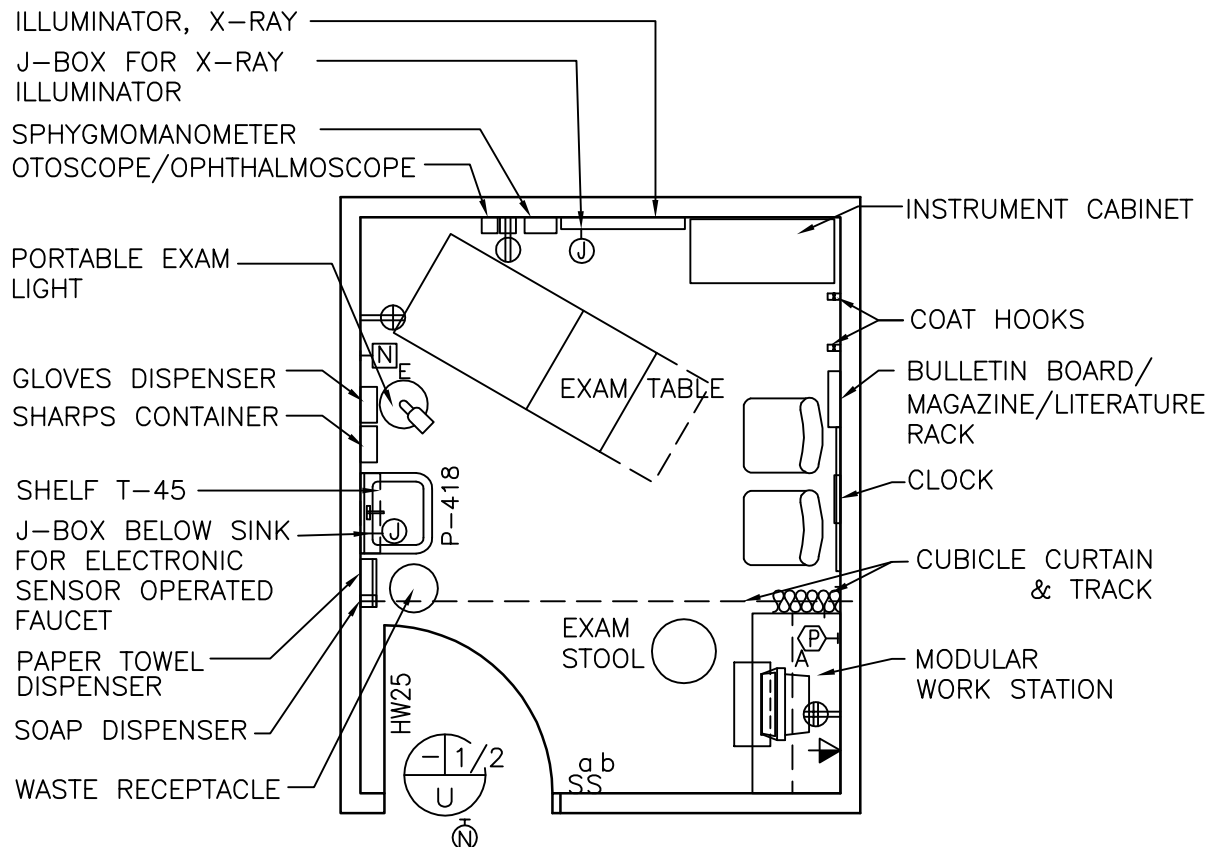
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Wall hung bench (PG-18-1, MCS 06 20 00)
A1066		1	CC	Mirror full length, heat tempered glass, 20" x 48" (500 mm x 1200 mm) (PG-18-1, MCS 10 28 00)
		1	CC	Corded nurse call emergency station, activated by pull cord button on wall, with corridor signal light (PG-18-1, MCS 27 52 23)
A5145		2	VV	Hook, coat, wall hung



Exam Room (Multi-Purpose) (EXRG3)

Floor Plan



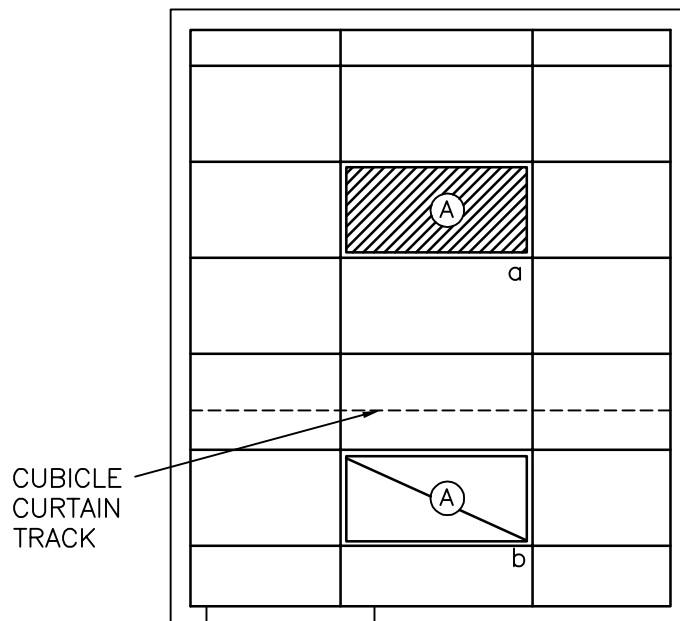
120 NSF/ 11.2 NSM (Shown above)
Audiology similar: 150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Exam Room (Multi-Purpose) (EXRG3)

Reflected Ceiling Plan



120 NSF/ 11.2 NSM (Shown above)
Audiology similar: 150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Exam Room (Multi-Purpose) (EXRG3)

Design Standards

ARCHITECTURAL

Ceiling:	GWB Lay-in Panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). Portable Examining Light The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fluorescent nurse call light. Fixture description for alternate 150 NSF room is the same as described in Note 1 above. Orient both fixtures in the same manner as shown for 120 NSF room. Increase overall room wattage by 20%.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station receptacles with modular furniture. Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Exam Room (Multi-Purpose) (EXRG3)

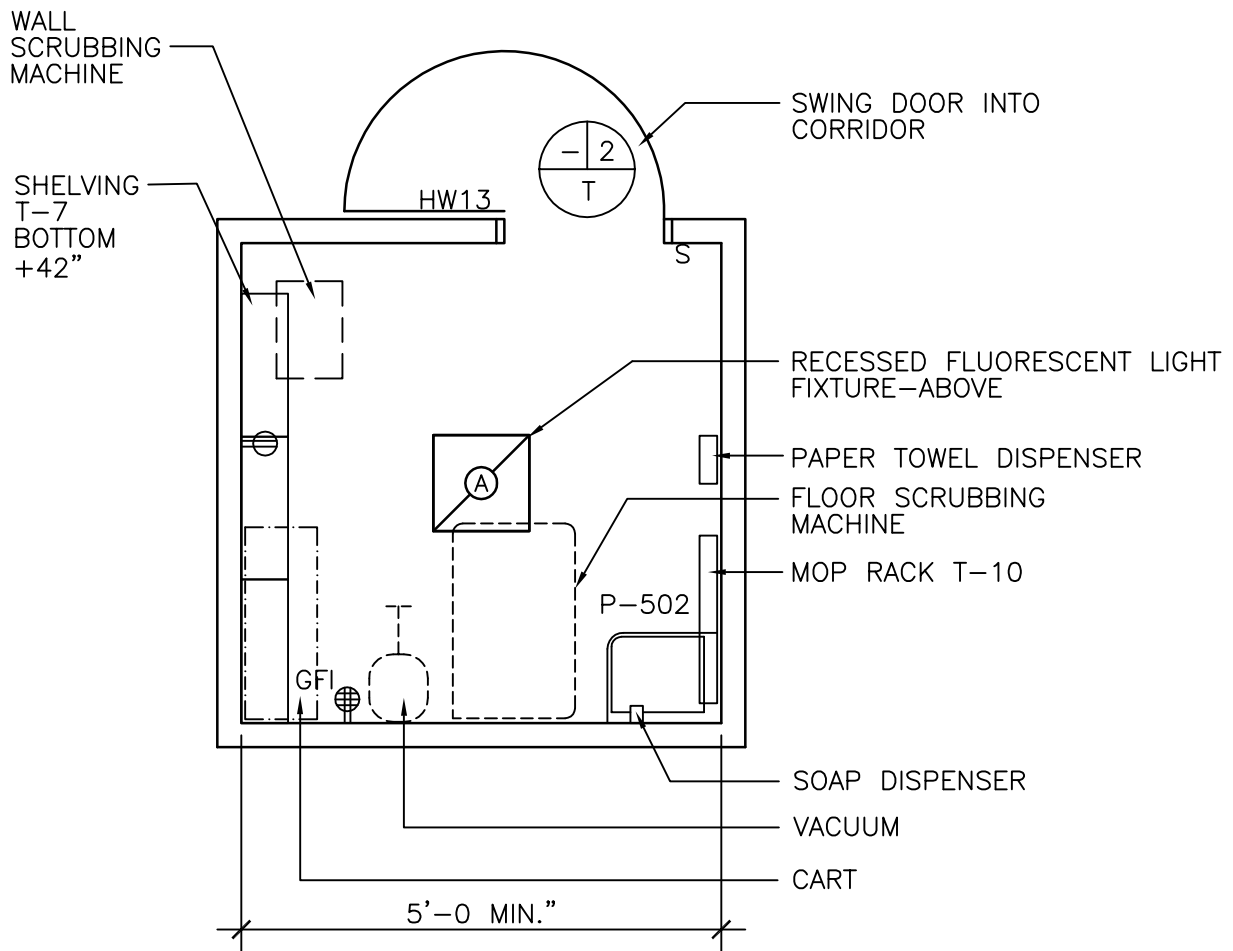
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5145		2	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
F0210		AR	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
X3930		AR	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted



Housekeeping Aids Closet (HAC) (JANC1)

Floor Plan & Reflected Ceiling Plan



100 NSF (Large)/ 9.3 NSM (Large) (Shown above)
 60 NSF (Surgery) 5.6 NSM
 40 NSF(Standard)/ 3.8 NSM (Standard)

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Housekeeping Aids Closet (HAC) (JANC1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	CT 48" (1200 mm) above base
Base:	WSF, 6" (150 mm)
	Integral Cove Base
Floor Finish:	WSF
Lead Lining:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Emergency:	All
Note:	<ol style="list-style-type: none"> 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fixture description for alternate 60 NSF and 40 NSF rooms is the same as described in Note 1 above. Locate the fixture in the center of the room. Reduce fixture wattage to half that required for 100 NSF room.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	Not Applicable
Minimum Air Changes per Hour:	Highest of: 10 air changes per hour, or 1 CFM/SF (23 liters/sec/sq meters), or 50 CFM (24 liters/sec). Air admitted as make-up from adjoining spaces
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	Not Applicable
AC Load-(Equipment):	Not Applicable
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Housekeeping Aids Closet (HAC) (JANC1)

Equipment List

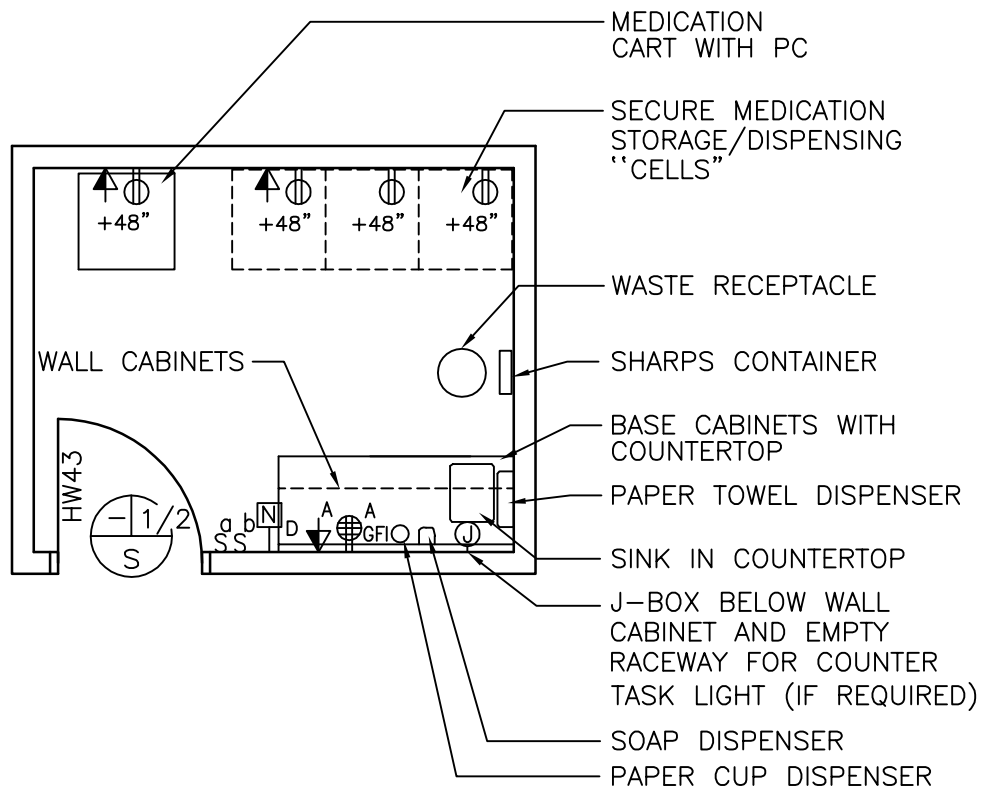
JSN	SYMBOL	QTY	AI	DESCRIPTION
P4700	P-502	1	CC	Sink, service, corner, floor mounted (PG-18-1, MCS 22 40 00)
A5135	T-10	AR	CC	Rack, mop, wall mounted (PG-18-1, MCS 10 28 00)
A5135	T-7	AR	CC	Shelving, wall hung, corrosion resisting steel, 2 fixed shelves, 2 doors with locks, 36" x 12" x 48" (900 mm x 300 mm x 1200 mm), 60" (1520 mm) above finished floor (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26)
M2600		1	VV	Vacuum cleaner, battery powered
		1	VV	Machine, scrubbing, wall, battery powered
M2650		1	VV	Machine, scrubbing, floor, battery powered
F0500		1	VV	Cart, supplies, 24" x 48" (600 mm x 1200 mm)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted



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Medication Room (MEDP1)

Floor Plan



80 NSF/ 7.4 NSM (Shown above)

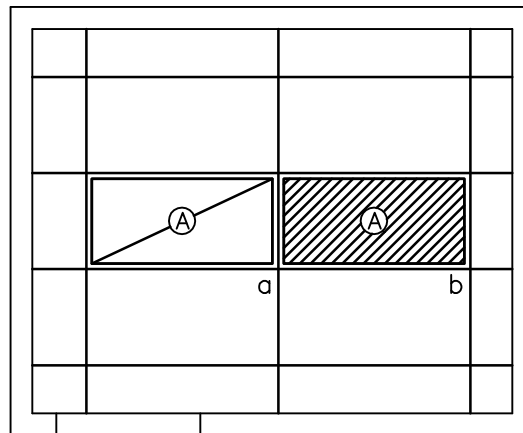
Dermatology: 90 NSF/ 8.4 NSM

Methadone maintenance: 120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Medication Room (MEDP1) Reflected Ceiling Plan



80 NSF/ 7.4 NSM (Shown above)

Dermatology: 90 NSF/ 8.4 NSM

Methadone maintenance: 120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Medication Room (MEDP1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens w/ F32T8 lamps, 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fixture description for alternate 90 and 120 NSF rooms is the same as described in Note 1 above. Orient two fixtures in a similar manner to layout for 80 NSF room. Fixture wattage should remain the same as required for 80 NSF room.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	1
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Medication Room (MEDP1)

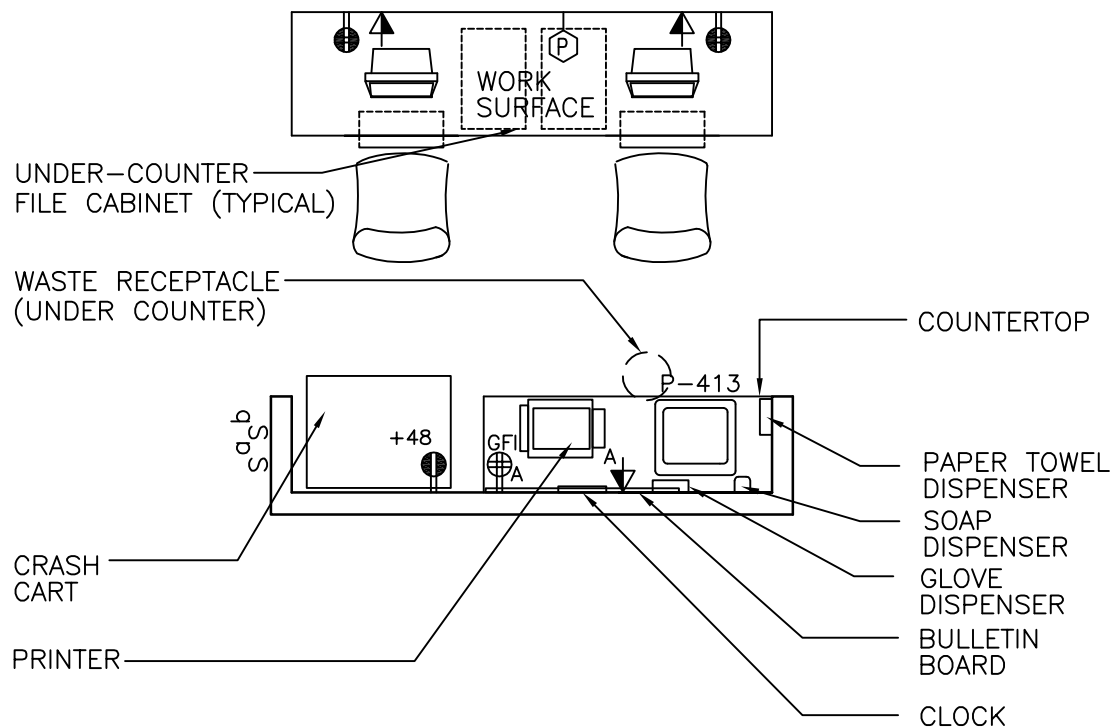
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
C04P0		1	CC	Cabinet, sink base, 2-door, 60" x 24" x 36" (1520 mm x 600 mm x 900 mm) (PG-18-1, MCS 12 31 00)
D0370		1	CC	Cabinet, drawer base, 24" x 24" x 36" (600 mm x 600 mm x 900 mm) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex and quadruplex(PG-18-1, MCS 26 27 26)
CE050		AR	CC	Cabinet, wall, 2 adjustable shelves, sloping top 24" W x 24" D x 30" H (600 mm W x 600 mm D x 750 mm H)
CT030		AR	CC	Countertop, SS (PG-18-1, MCS 12 36 00)
CS090	A-2	1	CC	Sink, CRS integral with top, with faucet, drain outlet and top (PG-18-1, MCS 12 36 00)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Nurse call duty station (PG-18-1, MCS 27 52 23)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5085		1	VV	Dispenser, paper cup, wall mounted
M3150		AR	VV	Automated storage/dispensing unit (cell) secure, approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)
A5106		1	VV	Sharps container
M7250		1	VV	Cart, medication, with PC computer system 36" x 30" x 36" (900 mm x 750 mm x 900 mm)



Nurse Station (NSTA1) (For Ambulatory Surgery and Minor Surgery Recovery Areas)

Floor Plan



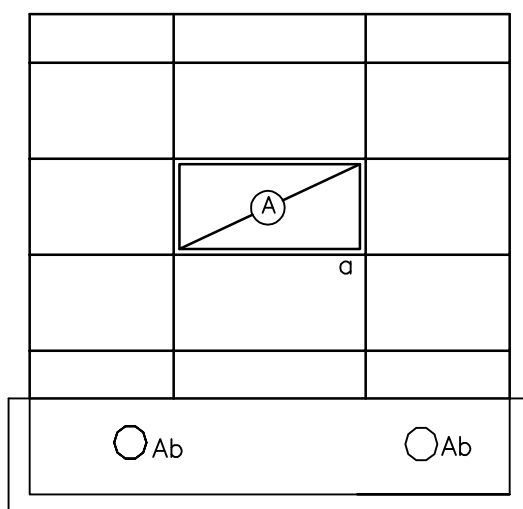
75 NSF/ 7.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Nurse Station (NSTA1) (for Ambulatory Surgery and Minor Surgery Recovery Areas)
Reflected Ceiling Plan



75 NSF/ 7.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Nurse Station (NSTA1) (For Ambulatory Surgery and Minor Surgery Recovery Areas)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) Provide 9" toe kick at front of counter.

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	1) Recess light fixture over counter with fluorescent lamp. 2) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 3) The foot-candle level is average maintained. 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	Yes
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Nurse call system at Nurse's Station is PC based.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Nurse Station (NSTA1) (For Ambulatory Surgery and Minor Surgery Recovery Areas)
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Counter, plastic laminate top (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
P3100	P-413	1	CC	Lavatory, counter mounted (PG-18-1, MCS 22 40 00)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
F0210		AR	VV	Chair, rotary, without arms
F3010 or F3025		1	VV	Bulletin board, 60" W x 36" H (1520 mm W x 900 mm H)
F0410		AR	VV	Metal file, under counter
M1801		AR	VV	PC, computer system, with keyboard
M1840		1	VV	Printer, computer system
F3200		1	VV	Clock, atomic, battery operated
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
A5080		1	VV	Dispenser, paper towel, wall mounted
E0954		1	VV	Crash cart, 28" x 36" x 36" (700 mm x 900 mm x 900 mm)
T0015		1	VV	Defibrillator 12-Volt
F2017		1	VV	Receptacle, waste, step on type

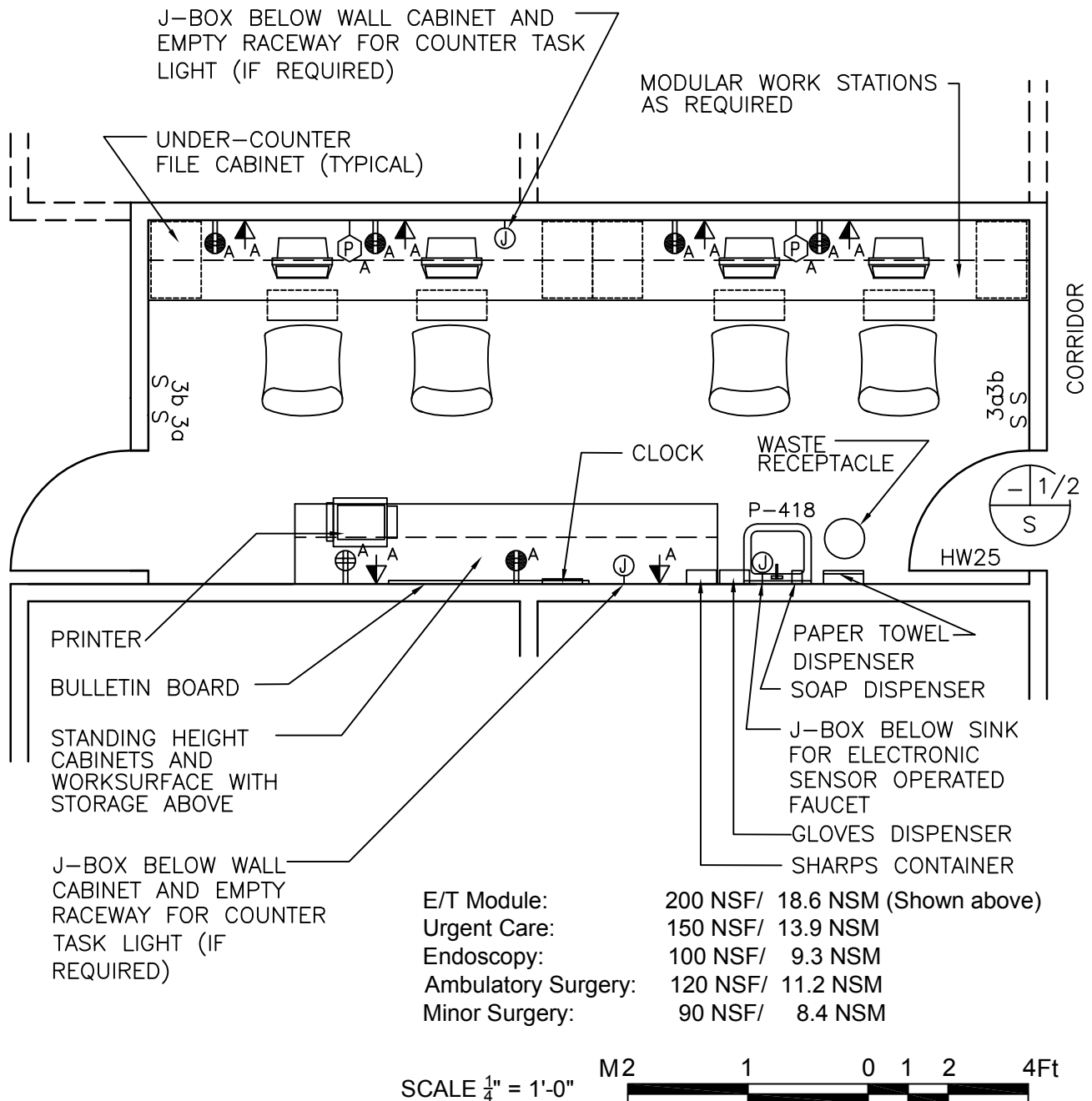


Nurse/Communication Station (NSTA4)

Floor Plan

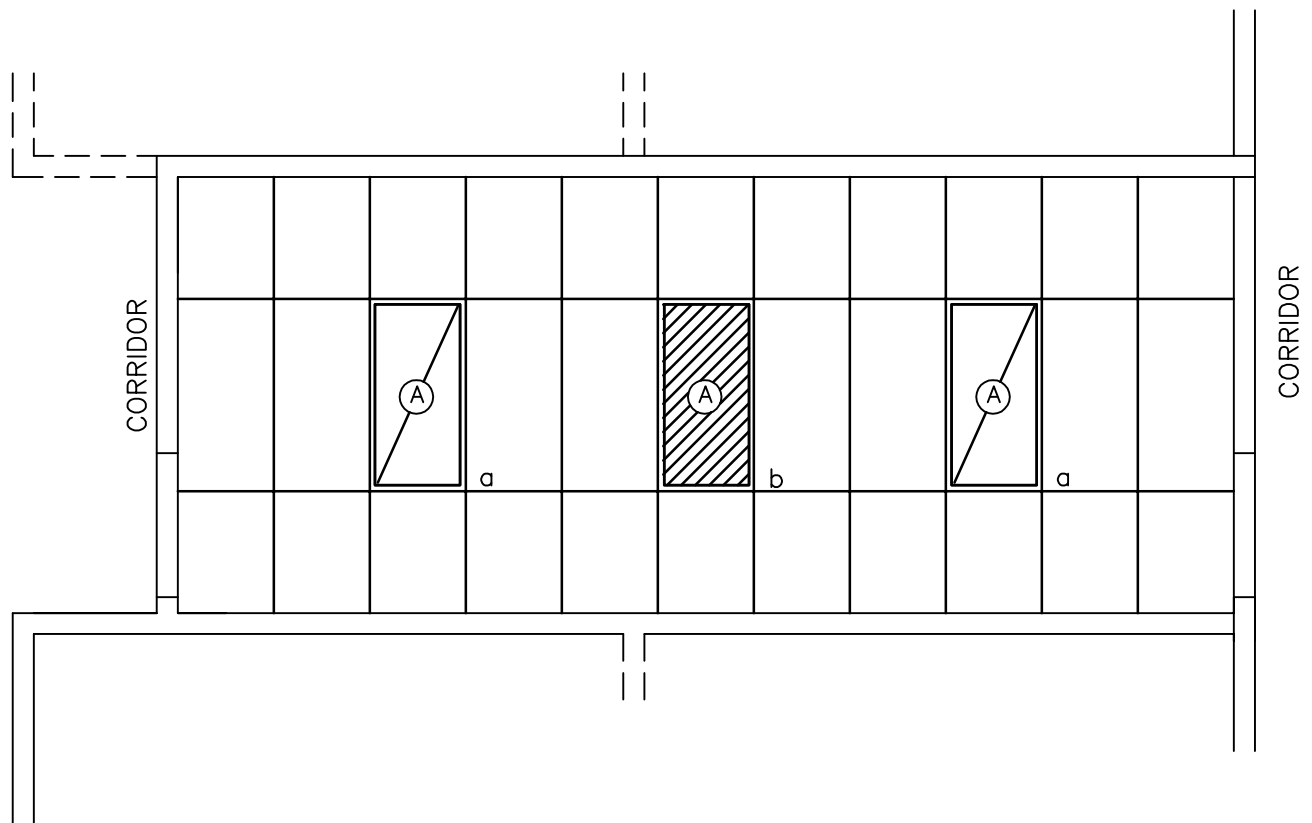
NOTE: IN ET MODULES & SUBSPECIALTY CLINICS THE NURSE STATION MAY BE CLOSED (AS SHOWN) OR OPEN TO CORRIDOR(S) AS REQUIRED FOR FUNCTIONS SERVED.

IN SURGERY PROVIDE VISUAL AND PHYSICAL ACCESS AS REQUIRED FOR NURSE STATIONS



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Nurse/Communication Station (NSTA4) Reflected Ceiling Plan



E/T Module:	200 NSF/ 18.6 NSM (Shown above)
Urgent Care:	150 NSF/ 13.9 NSM
Endoscopy:	100 NSF/ 9.3 NSM
Ambulatory Surgery:	120 NSF/ 11.2 NSM
Minor Surgery:	90 NSF/ 8.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Nurse/Communication Station (NSTA4)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) Provide 9" toe kick at front of counter.

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fixture description for alternate 90, 100, 120, and 150 NSF rooms is the same as described in Note 1 above. Orient fixtures in a similar manner to layout for 220 NSF room. Reduce fixture count to two fixtures for 90 and 100 NSF rooms and reduce count to three fixtures for 100 and 150 NSF rooms. Fixture wattage should be the same as required for 220 NSF room.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	Yes
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Nurse/Communication Station (NSTA4)

Equipment List

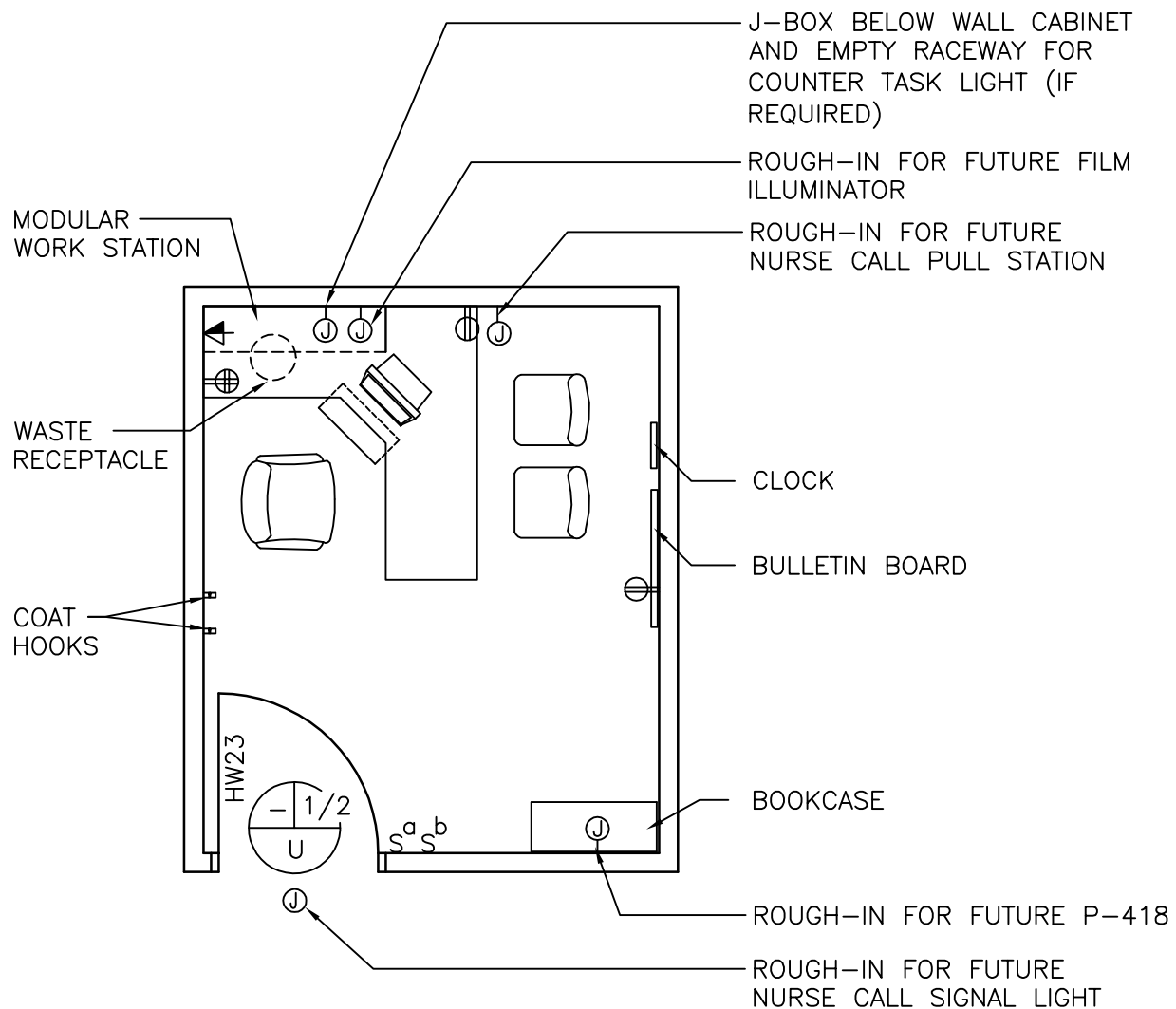
JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Counter, plastic laminate top (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1; MCS 22 40 00)
		AR	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
A6105		AR	CC	Base cabinets, counter top, and storage above (work surface) (PG-18-1, MCS 12 32 00 and 12 36 00)
F0210		AR	VV	Chair, rotary, without arms
F3010 or F3025		1	VV	Bulletin board, 60" W x 36" H (1520 mm W x 900 mm H)
F0410		AR	VV	Metal file, under counter
M1801		AR	VV	PC, computer system, with keyboard
M1840		1	VV	Printer, computer system
F3200		1	VV	Clock, atomic, battery operated
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
A5106		1	VV	Sharps container
A5080		1	VV	Dispenser, paper towel, wall mounted
F2017		1	VV	Receptacle, waste, step on type



Office (OFA01)(OFA02)(OFA03)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

Floor Plan

CONSIDER PROVIDING BACKING ROUGH-INS FOR CONVERSION TO EXAM ROOM-SEE GUIDE PLATE 4-174 SIMILAR.



Typical: 120 NSF/ 11.2 NSM (Shown above)
 Minimum: 80 NSF/ 7.4 NSM
 Maximum: 150 NSF/ 13.9 NSM

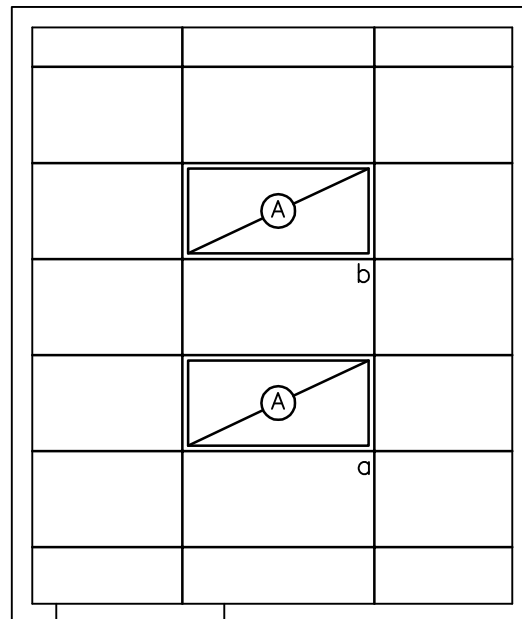
SCALE $\frac{1}{4}" = 1'-0"$



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Office (OFA01)(OFA02)(OFA03)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

Reflected Ceiling Plan



Typical: 120 NSF/ 11.2 NSM (Shown above)

Minimum: 80 NSF/ 7.4 NSM

Maximum: 150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Office (OFA01)(OFA02)(OFA03)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CPT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fixture description for alternate 80 and 150 NSF rooms is the same as described in Note 1 above. Orient the two fixtures for 150 NSF room in the same manner as shown for 120 NSF room. Orient single fixture and grid for 80 NSF room at 90° from orientation shown in 150 NSF room. For 80 and 150 NSF rooms, increase fixture wattage by 50%.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Rough-in Only
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Rough-in Only
Hot Water:	Rough-in Only
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Rough-in Only
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Office (OFAO1)(OFAO2)(OFAO3)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

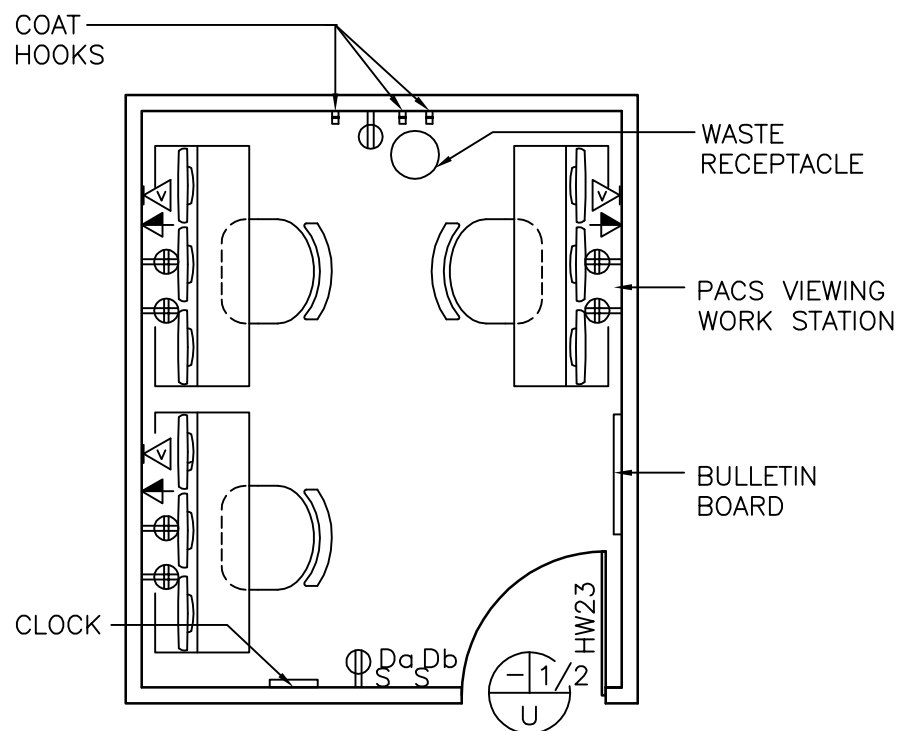
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
	P-418	1	CC	Rough-in for lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Rough-in for nurse call, emergency station, and corridor signal light (PG-18-1, MCS 27 52 23)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		1	VV	Chair, rotary, with arms
F0120		1	VV	Bookcase, sectional, each section, 33" x 13" x 75" (825 mm x 325 mm x 1875 mm) with 10" (250 mm) base
A5145		2	VV	Hook, coat, wall mounted
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
M1801		1	VV	PC, computer system, with keyboard
F0210		2	VV	Chair, straight, without arms
F3010		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F3200		1	VV	Clock, atomic, battery operated
Refer to Examination Room Guide Plate (EXRG3) for location of following:				
		AR	CC	Provide backing for future wall mounted equipment and accessories: Sphygmomanometer Otoscope / Ophthalmoscope Glove dispenser Sharps container Paper towel dispenser
		1	CC	Rough-in j-box for future x-ray film illuminator



PACS Viewing Room (XVCO1) Floor Plan

NOTE: GUIDE PLATE ALSO APPLIES FOR ENDOSCOPY SUITE DICTATION/ VIEWING

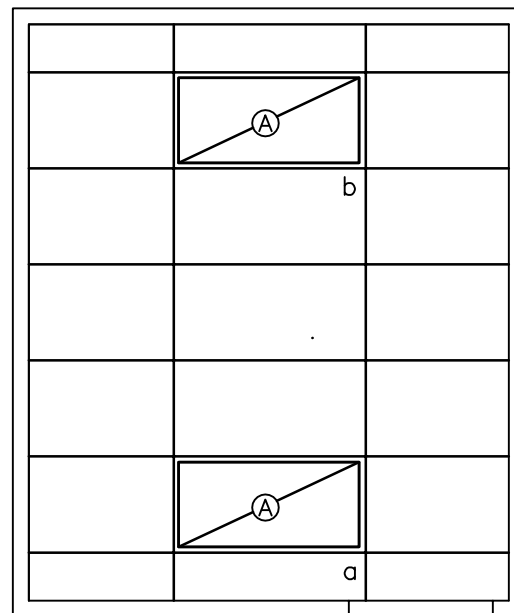


120 NSF/ 11.1 NSM (Shown above)
Common Viewing in Radiology 150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

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PACS Viewing Room (XVCO1) Reflected Ceiling Plan



120 NSF/ 11.1 NSM (Shown above)
Common Viewing in Radiology 150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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PACS Viewing Room (XVCO1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CPT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--

- Notes:
- 1) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent fixture with acrylic prismatic lens, rapid start dimmable ballast, F32T8, color temperature of 3500°K and CRI not less than 70.
 - 2) The foot-candle level is average maintained.
 - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 - 5) Fixture description for alternate 150 NSF room is the same as described in Note 1 above. Orient two fixtures in a similar manner to that shown for 120 NSF room. The fixture wattage for 150 and 120 NSF rooms should be the same.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	Yes
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



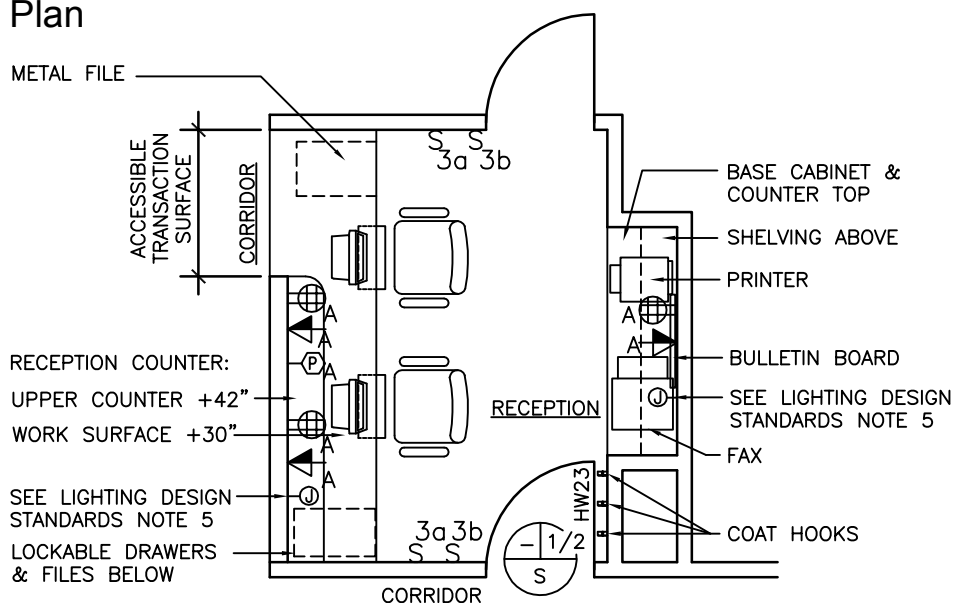
PACS Viewing Room (XVCO1)

Equipment List

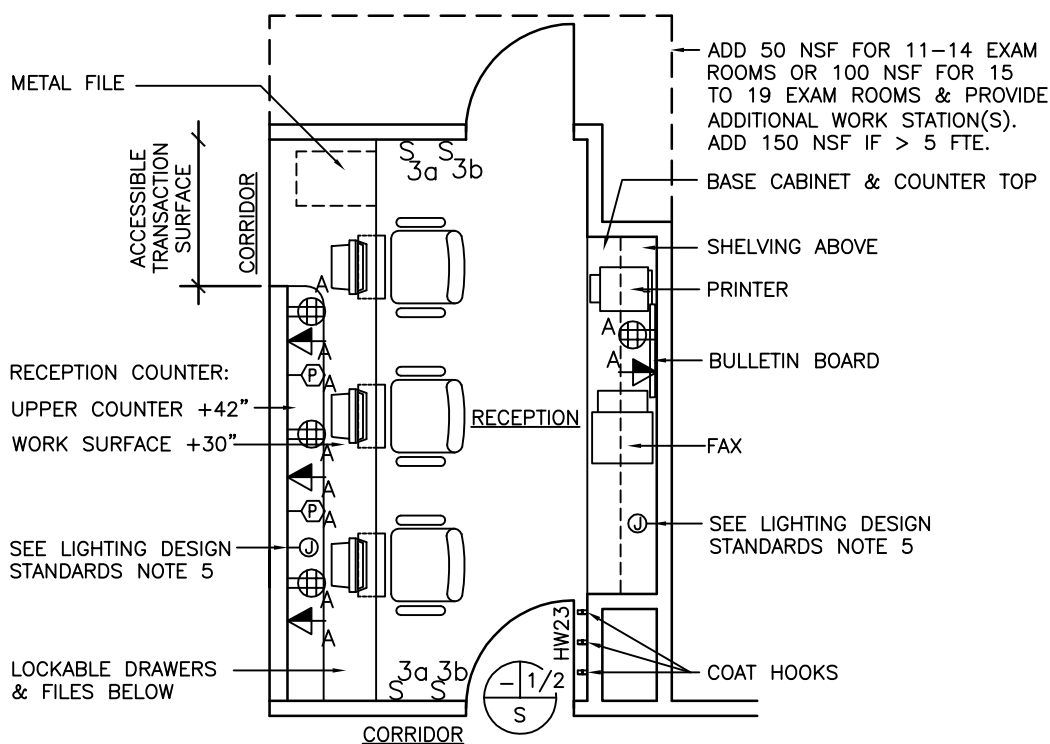
JSN	SYMBOL	QTY	AI	DESCRIPTION
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
F3010 or F3025		1	CC	Bulletin Board, 48" x 36" (1200 mm x 900 mm)
		AR	CC	Outlet, video, wall mounted (PG-18-1, MCS 27 41 31)
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
F3200		1	VV	Clock, atomic, battery operated
X4122		AR	VV	PACS viewing/high resolution workstation, 2 monitors with controls
M1801		AR	VV	PC, computer system, with keyboard
F0210		AR	VV	Chair, rotary, without arms
A5145		3	VV	Hook, coat, wall mounted



Floor Plan



Prosthetics similar: 60 NSF/ 5.6 NSM



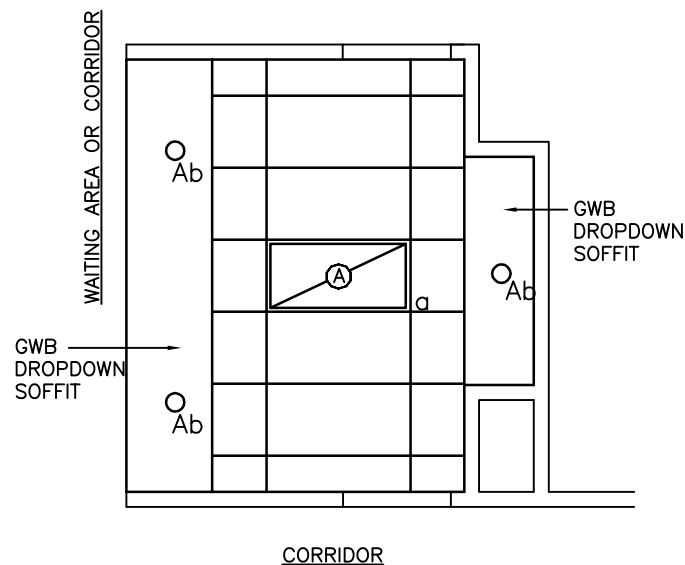
Clinical Reception (for up to 10 Exam Rooms): 150 NSF/13.9 NSM

SCALE $\frac{3}{16}" = 1'-0"$

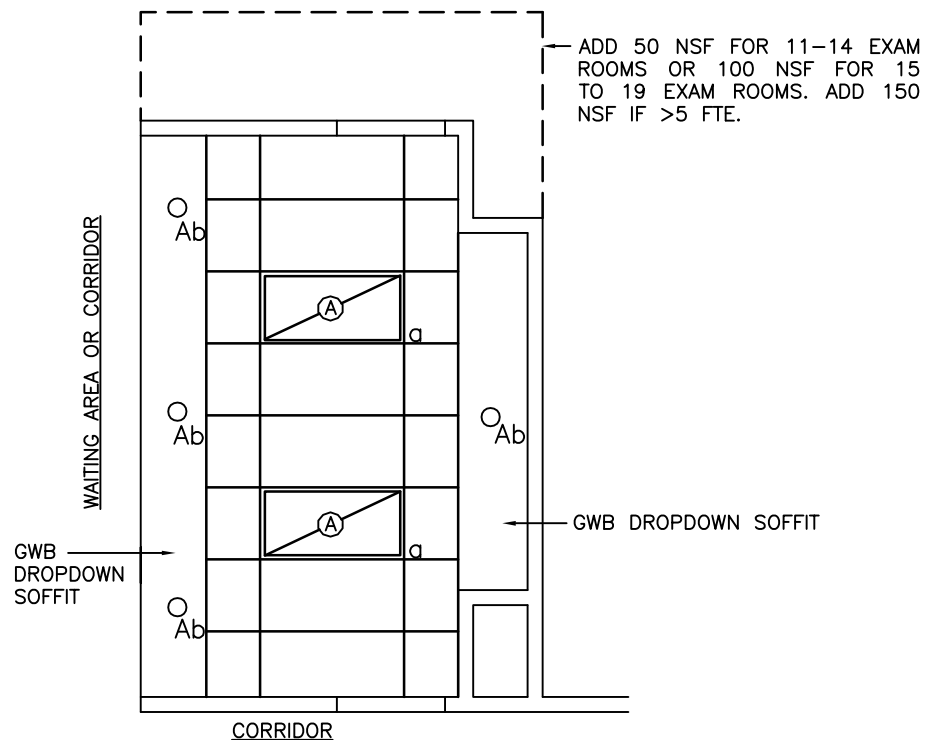


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Reception (RECP1) Reflected Ceiling Plan



Typical Reception: 120 NSF/ 11.2 NSM
Prosthetics similar: 60 NSF/ 5.6 NSM



Clinical Reception (for up to 10 Exam Rooms): 150 NSF/13.9 NSM

SCALE $\frac{3}{16}$ " = 1'-0"



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Reception (RECP1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	--
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Emergency:	--

- Notes:
- 1) Recessed fluorescent fixture with compact fluorescent lamp.
 - 2) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent fixture with F32T8 lamps, color temperature of 3500°K , CRI=70 (minimum).
 - 3) The foot-candle level is average maintained.
 - 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamps(s) on first switch and outer lamps on second switch.
 - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 - 5) J-box below wall cabinet and empty raceway for counter task light (if required).

POWER

General:	As Shown
Special:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Reception (RECP1)

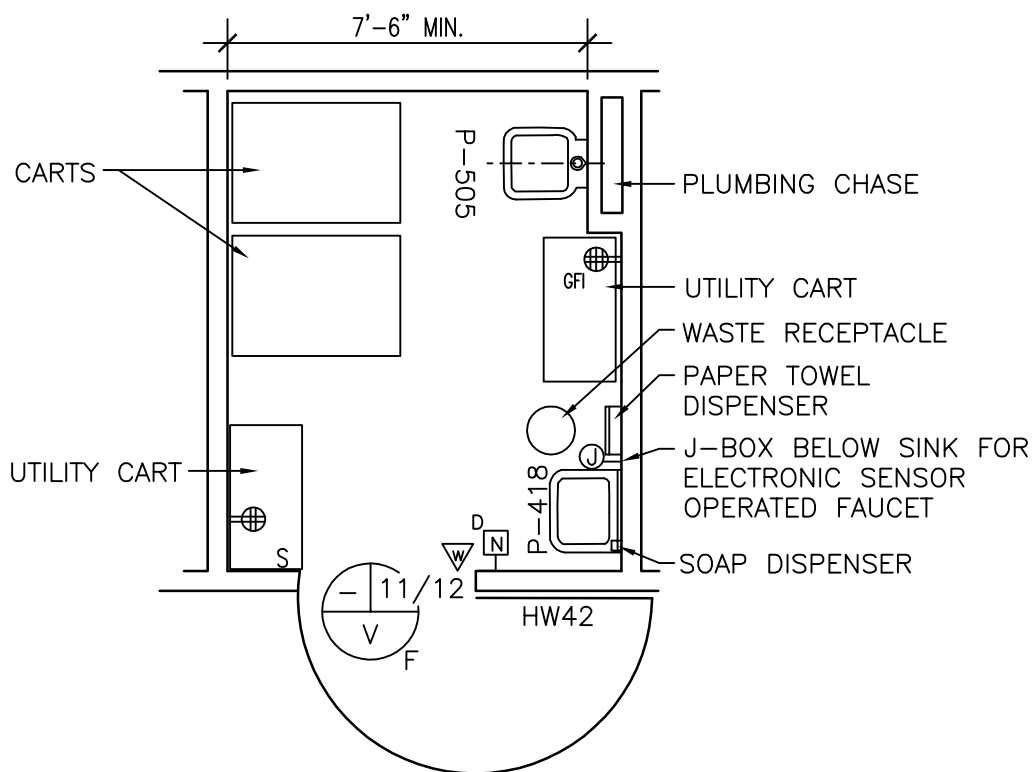
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Shelving, wall hung, standard and bracket type, 2 adjustable shelves, 12" D x length as required (300 mm D x length as required (PG-18-1, MCS 12 36 00)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
F3010 or F3025		AR	CC	Bulletin board
CT030		AR	CC	Reception counter, custom casework (PG-18-1, MCS 06 20 00)
A6105		AR	CC	Base cabinets, counter top, and open wall shelving (work surface) (PG-18-1, MCS 12 32 00 and 12 36 00)
		AR	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M1801		AR	VV	CRT, computer system, with keyboard
F0410		AR	VV	Metal file, under counter
M1840		1	VV	Printer, computer system
F0280		AR	VV	Chair, rotary, with arms
M1840		1	VV	Machine, facsimile
A5145		3	VV	Hook, coat, wall mounted



Soiled Utility Room (USCL1)

Floor Plan



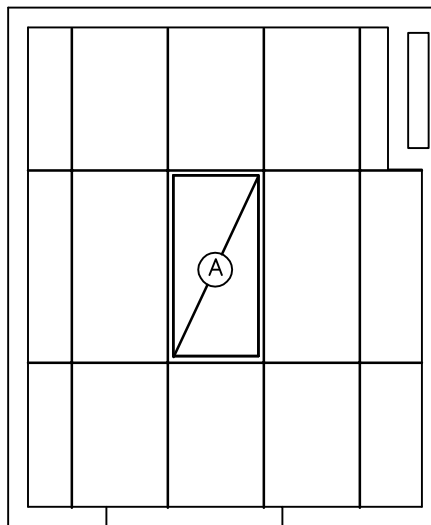
Typical (min.): 80 NSF/ 7.4 NSM (Shown above)
Ambulatory Surgery: 100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Soiled Utility Room (USCL1) Reflected Ceiling Plan



Typical (min.): 80 NSF/ 7.4 NSM (Shown above)
Ambulatory Surgery: 100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Soiled Utility Room (USCL1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB (SC)
Wainscot:	--
Base:	RSF
Floor Finish:	RSF
Slab Depression:	--
Sound Protection:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent fixture with acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fixture description for alternate 100 NSF room is the same as described in Note 1 above. Orient single fixture for 100 NSF in the same manner as shown for 80 NSF room. Fixture wattage should be the same for both room sizes.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	Not Required
Minimum Air Changes per Hour:	10 (All Make-Up Air)
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	None
AC Load-(Equipment):	None
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> 1) Admit make-up air through the door undercut and transfer grille (if required) from the adjoining areas.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



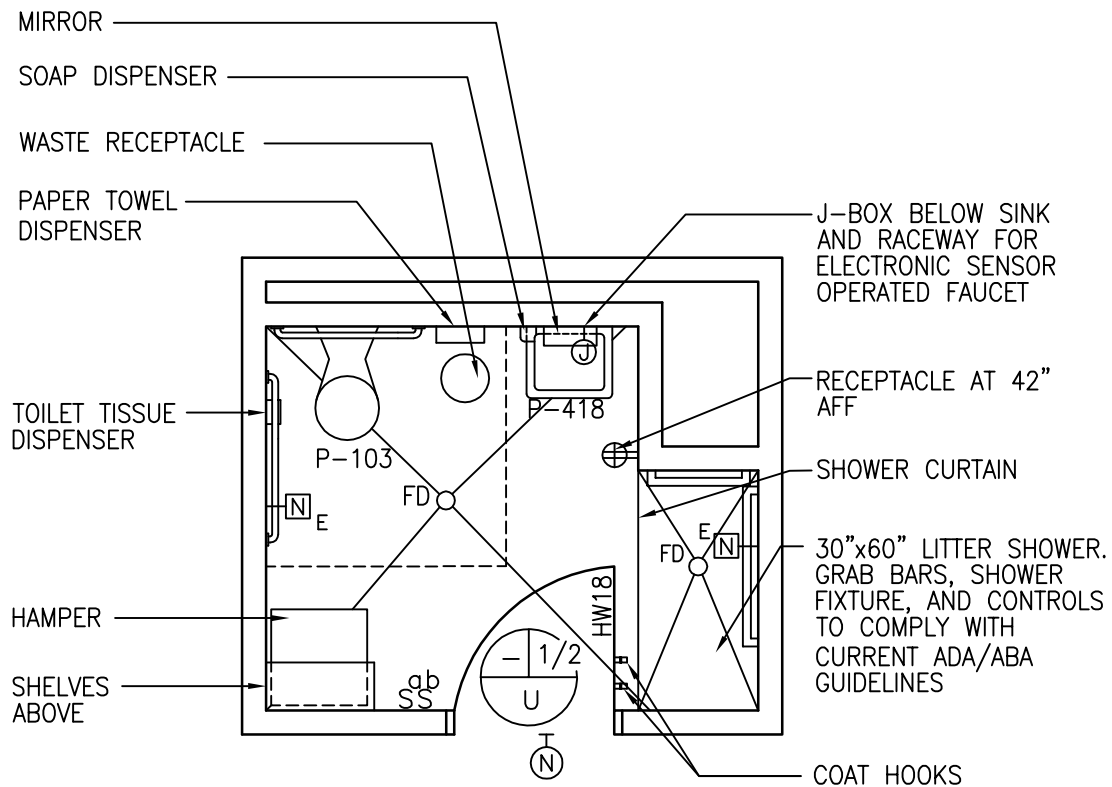
Soiled Utility Room (USCL1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
P6500	P-505	1	CC	Sink, service, clinic, flushing rim, wall hung (PG-18-1, MCS 22 40 00)
		AR	CC	Receptacle, electrical, quadruplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call duty station, wall mounted (PG-18-1, MCS 27 52 23)
		1	CC	Outlet, telephone, wall mounted (PG-18-1, MCS 27 15 00)
F0535		2	VV	Cart, utility, corrosion resisting steel, 36" x 18" x 30" (900 mm x 450 mm x 750 mm)
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F0510		AR	VV	Carts, soiled, linen



Toilet/ Shower, Wheelchair (TLTS1) (TLTS2) Floor Plan



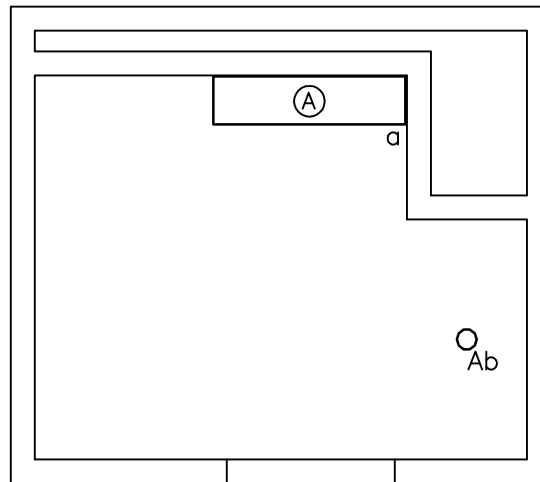
Minimum: 75 NSF/ 7.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Toilet/ Shower, Wheelchair (TLTS1) (TLTS2) Reflected Ceiling Plan



Minimum: 75 NSF/ 7.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Toilet/Shower, Wheelchair (TLTS1) (TLTS2)

Design Standards

ARCHITECTURAL

Ceiling: PCP-P/GWB-EPY/PL-EPY
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: CT
 Wainscot: --
 Base: CT
 Floor Finish: CT (Slip Resistant)
 Slab Depression: 3" (75 mm) depression to
 allow entire floor area to
 slope to drain
 Notes: 1) 3'-6" (1050 mm) wide door

SPECIAL EQUIPMENT**LIGHTING**

General: --
 Special: --
 Notes: 1) Recessed fluorescent lensed
 fixture. UL listed for wet locations.
 2) Wall mounted fluorescent fixture
 above mirror. Fixture shall have
 T8 lamps, 3500°K, CRI=70
 (minimum).
 3) The foot-candle level is average
 maintained.
 4) Provide ballasts per fixture for
 desired switching configuration.
 To provide a uniform lighting level,
 switch inner lamp(s) on first switch
 and outer lamps on second switch.
 5) Exact quantity, location, and
 lamping of light fixtures shall be
 chosen to meet the foot-candle
 requirement.
 6) Fluorescent nurse call light.

POWER

General: As Shown
 Emergency: As Shown
 Notes: --

COMMUNICATION/SPECIAL SYSTEMS

Data: --
 Telephone: --
 Intercom: --
 Nurse Call: Yes
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: 1. Nurse Call

**HEATING, VENTILATING AND AIR
CONDITIONING**

Inside Design Conditions:
 (Interior) Conditioned by make-up air
 (Perimeter) Heating 68°F (20°C)
 Provide radiant ceiling panels
 Minimum Air Changes per Hour: Highest of:
 10 air changes per hour, or
 50 CFM (24 liters/sec). or
 Room air balance
 100% Exhaust: Yes
 100% Outside Air: No
 Room Air Balance: Double Negative (--)
 Dedicated Exhaust System: No
 Occupancy: Transient
 AC Load-(Equipment): None
 AC Load-(Light): As Required
 Notes: 1) Individual Room Temperature
 Control:
 (Interior) Not Required
 (Perimeter) Required for Heating
 Mode

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: Yes
 Reagent Grade Water: --
 Medical Air: --
 Medical Vacuum: --
 Oxygen: --
 Notes: --



Toilet/Shower, Wheelchair (TLTS1) (TLTS2)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P9150	P-103	1	CC	Water closet, wall hung (PG-18-1, MCS 22 40 00)
A5109		AR	CC	Bar, grab for water closet (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD-10 21 13-1)
A5200		1	CC	Dispenser, toilet tissue, double roll (PG-18-1, MCS 10 28 00)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5080		1	CC	Dispenser, paper towel and disposal combination units (PG-18-1, MCS 10 28 00)
A1066		1	CC	Mirror, wheelchair, 24" W X 36" H (600 mm W x 900 mm H) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD-10 28 00-3)
		AR	CC	Nurse call, emergency station with pull cord and corridor signal light. Omit for staff toilet/shower.
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
A5145		2	VV	Hook, coat
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter

SHOWER

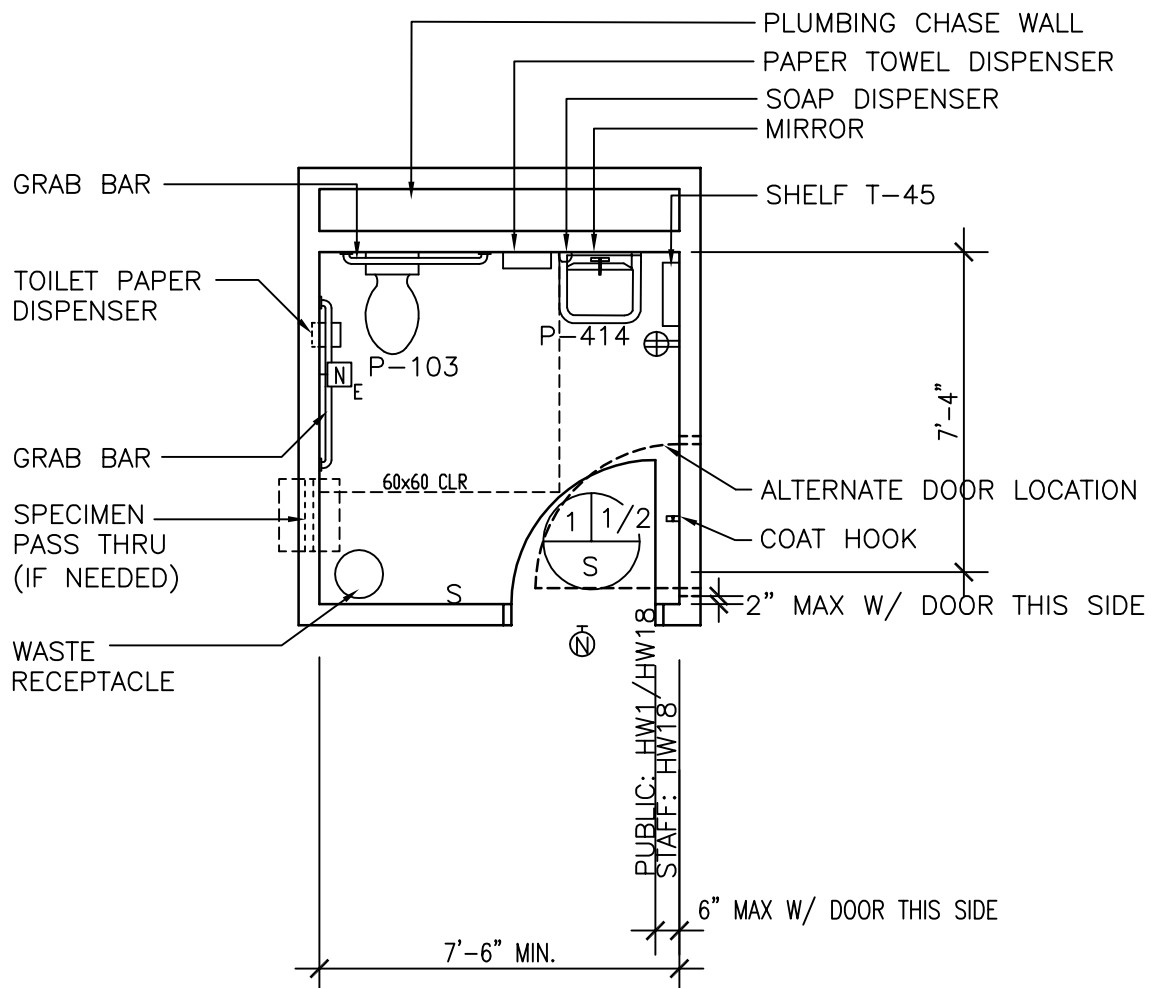
JSN	SYMBOL	QTY	AI	DESCRIPTION
P5040	P-703	1	CC	Shower fixture (PG-18-1, MCS 22 40 00)
A5110		AR	CC	Grab bar, shower (PG-18-1, MCS 10 28 00)
A5175		1	CC	Soap dish, recessed (PG-18-1, MCS 10 28 00)
A5185		1	CC	Track, shower curtain, with hooks, ceiling mounted (PG-18-1, MCS 10 28 00)
A5162		2	CC	Shelves, wall mounted, adjustable 10" D x 30" (250 mm D x 750 mm); minimum 40" (1000 mm), maximum 56" (1425 mm) AFF (PG-18-1, MCS 12 32 00 or 12 36 00)
A5170		1	VV	Curtain, shower
M3070		1	VV	Hamper, soiled linen and towels



Toilet, Wheelchair Accessible (TLTU1)

Floor Plan

NOTE: DO NOT OVERLAP DOOR SWING WITH ADA/ ABA CLEARANCE AT WATER CLOSET.



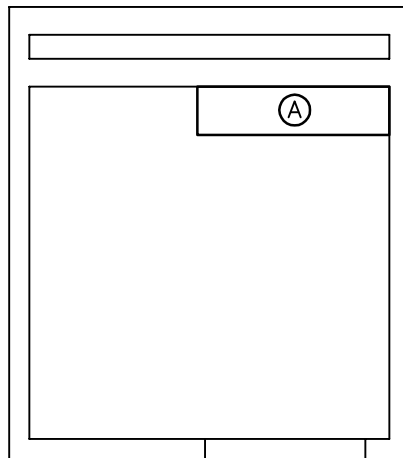
55 NSF/ 3.7 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Toilet, Wheelchair Accessible (TLTU1) Reflected Ceiling Plan



55 NSF/ 3.7 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Toilet, Wheelchair Accessible (TLTU1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	48" (1200 mm) min., CT
Base:	CT
Floor Finish:	CT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) Wall mounted fluorescent fixture above mirror. Fixture shall have T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	
	(Interior) Conditioned by make-up air
	(Perimeter) Heating 68°F (20°C)
	Provide radiant ceiling panels
Minimum Air Changes per Hour:	Highest of:
	10 air changes per hour, or
	50 CFM (24 liters/sec).
	Room air balance
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	Transient
AC Load-(Equipment):	None
AC Load-(Light):	As Required
Notes:	1) Individual Room Temperature
Control:	
	(Interior) Not Required
	(Perimeter) Required for Heating
	Mode

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



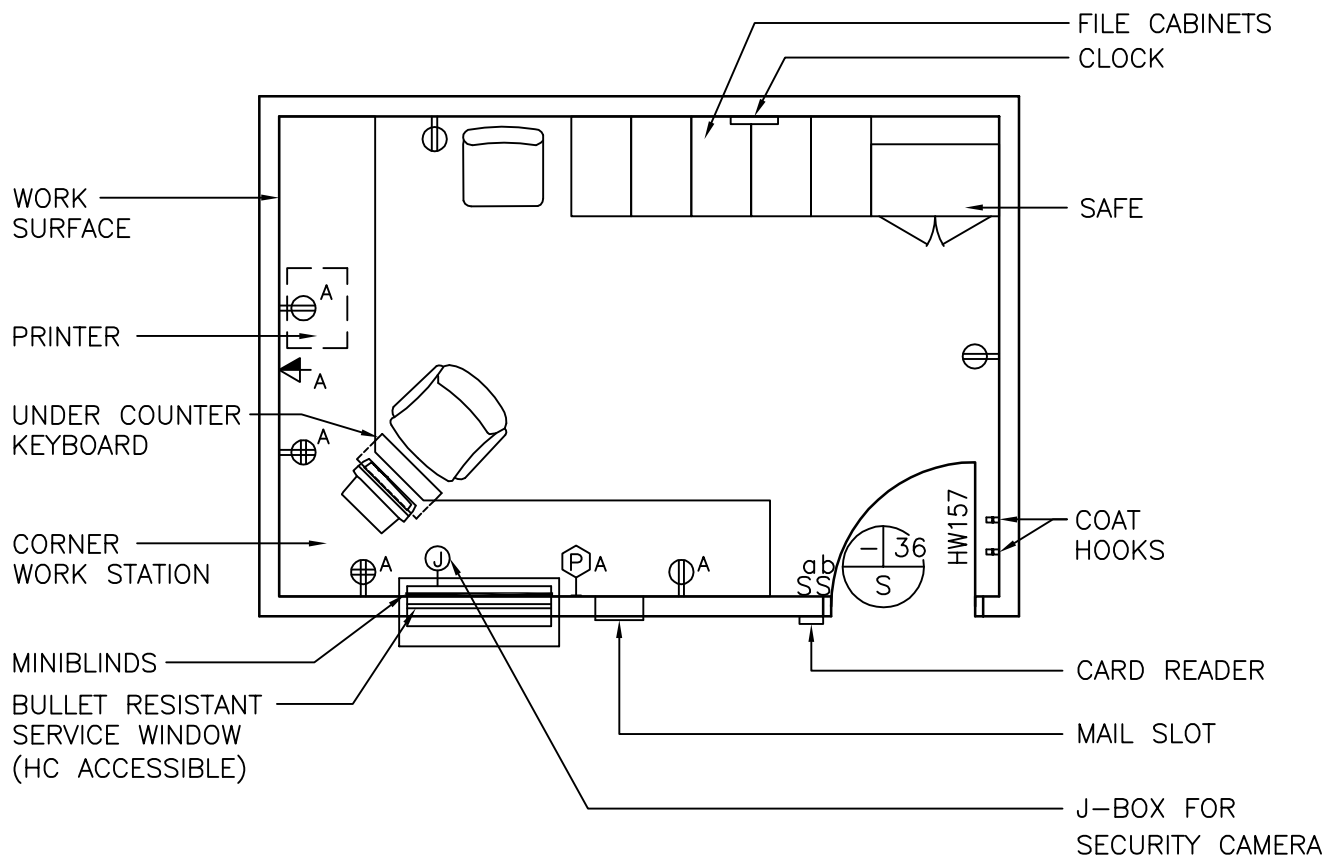
Toilet, Wheelchair Accessible (TLTU1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P9150	P-103	1	CC	Water closet, wall hung (PG-18-1, MCS 22 40 00)
A5200		1	CC	Dispenser, toilet tissue, double roll (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 21 13-1)
A5109		AR	CC	Bar, grab for water closet (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 21 13-1)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) over wheelchair lavatory (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-3)
A5162	T-45	1	CC	Shelf, stainless steel, wall hung, 6" x 18" (150 mm x 450 mm) (PG-18-1, MCS 10 28 00)
		1	CC	Light, over mirror (PG-18-1, MCS 26 51 00)
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with corridor signal light, provide pull cord by water closet (PG-18-1, MCS 27 52 23). Omit in staff toilet.
A5145		1	VV	Hook, coat, wall mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
				Note: Provide following only when clinic has a laboratory.
		1	CC	Specimen pass-thru, to general lab (PG-18-1, MCS 10 28 00)



Ambulatory Care: Agent Cashier (CASH1)



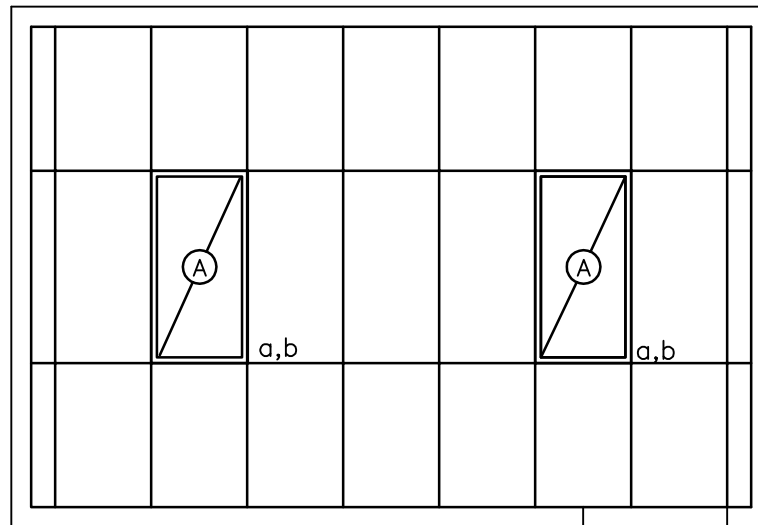
150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: Agent Cashier (CASH1) Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: Agent Cashier (CASH1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CP
Slab Depression:	--
Notes:	1) Refer to PG-18-3, construction procedures, Topic 14 for physical security requirements including wall, door and window construction.

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Alarm Button:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	Yes
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Ambulatory Care: Agent Cashier (CASH1)

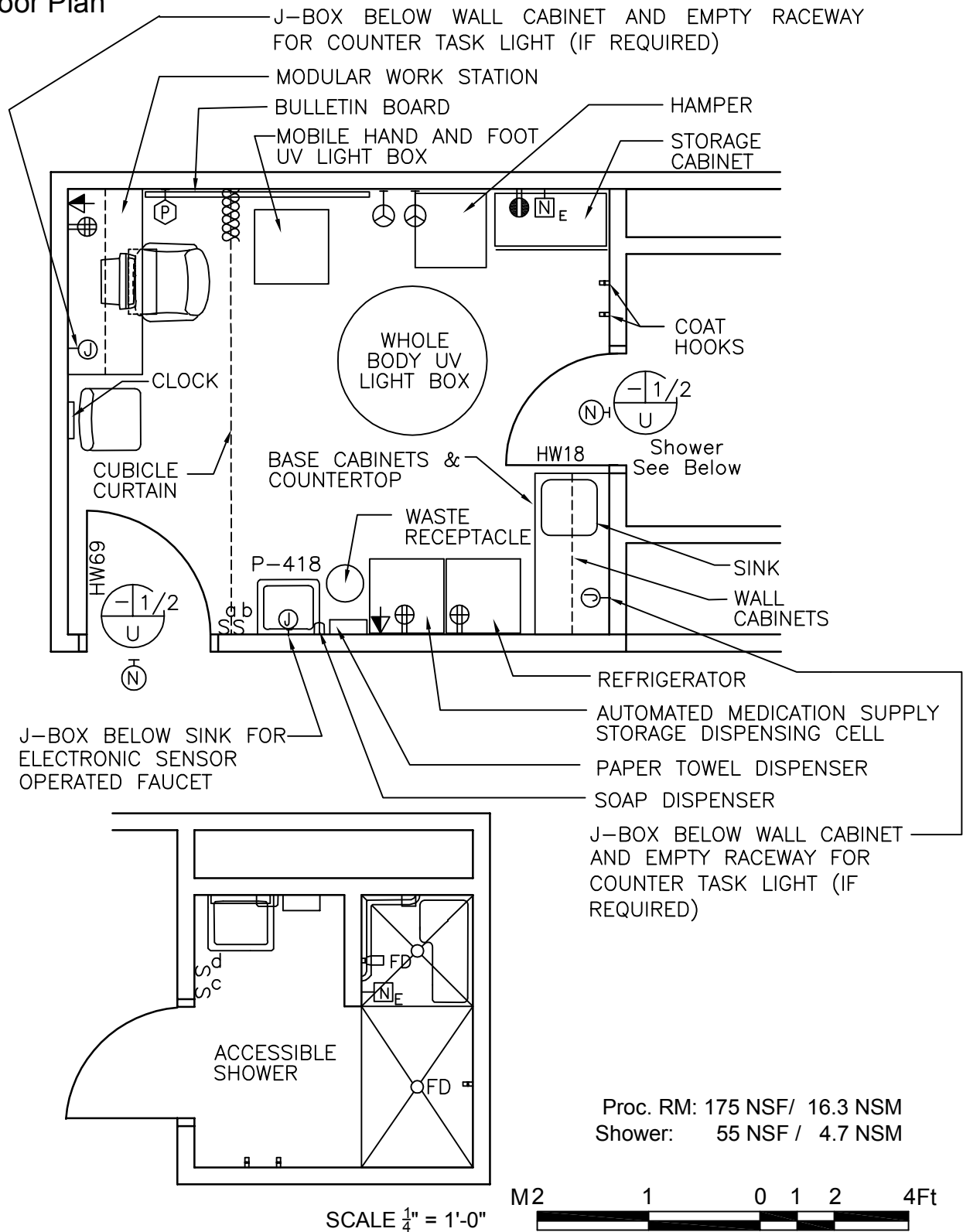
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Service window, bullet resistant (PG-18-1, MCS 08 56 59; PG-18-4, NCS SD 08 56 59-1)
		1	CC	Alarm, motion detector, intrusion (PG-18-1, MCS 28 16 11)
		1	CC	Outlet, computer (PG-18-1, MCS 27 15 00)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Card key access (PG-18-1, MCS 28 13 16)
		1	CC	Mail slot (PG-18-1, MCS 08 56 59)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
F0230		1	VV	Chair, rotary, without arms
F0275		1	VV	Chair, rotary, with arms
F0405		AR	VV	Cabinet, filing, 5 drawer, approx. 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)
F3100		1	VV	Safe, office, combination lock, 1 or 2 doors, size as required
A5145		2	VV	Hook, coat, wall mounted
E0099		1	VV	Corner workstation 60" x 72" x 30" (1520 mm x 1800 mm x 750 mm)
E0042		AR	VV	Work surface, modular 30" D (750 mm D)
M1801 & M1825		1	VV	Computer and printer
F3200		1	VV	Clock, atomic, battery operated
A6311		1	VV	Horizontal miniblinds



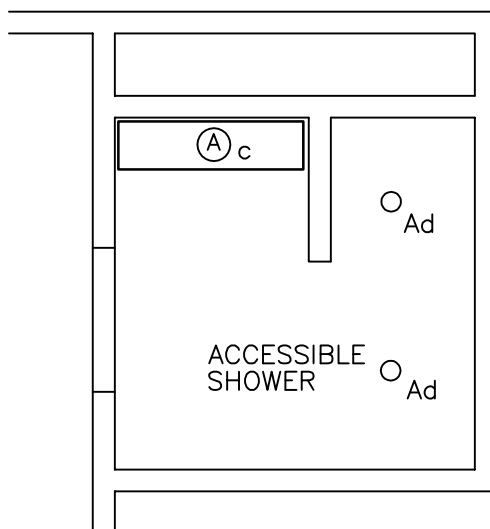
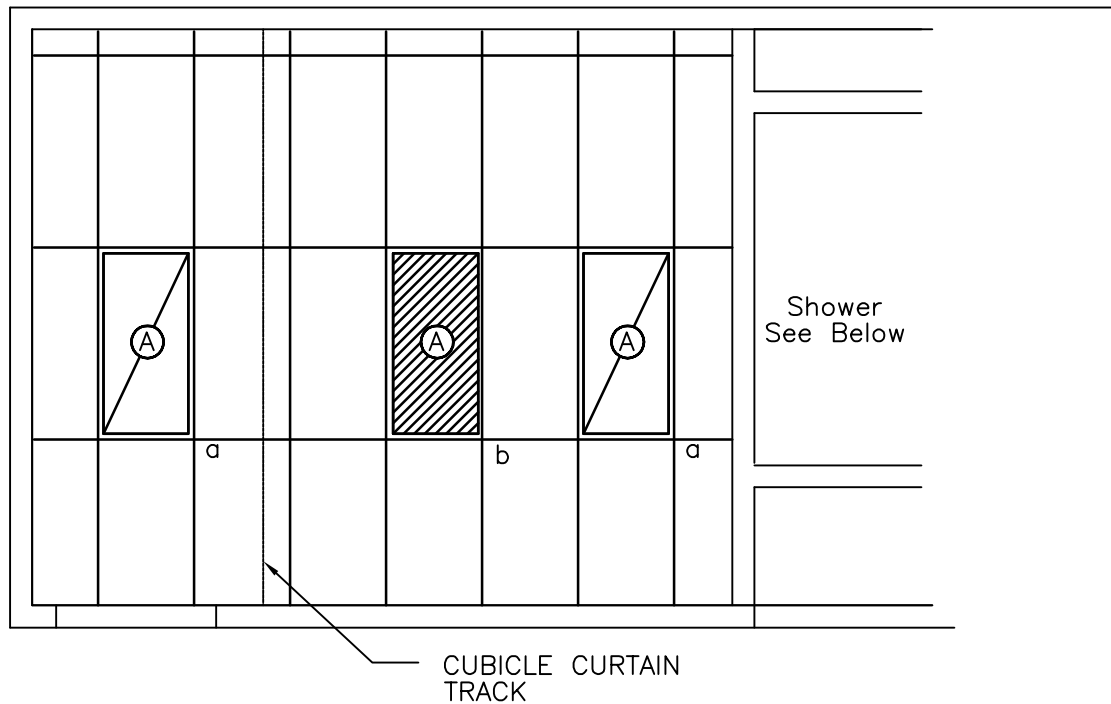
Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)

Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1) Reflected Ceiling Plan



Proc. RM: 175 NSF/ 16.3 NSM
Shower: 55 NSF / 4.7 NSM

SCALE $\frac{1}{4}$ " = 1'-0"



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Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)

Design Standards

ARCHITECTURAL

TREATMENT ROOM

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Base:	RSF-6" (150 mm) Integral Cove
Floor Finish:	RSF

SHOWER ROOM

Ceiling:	PCP-P/GWB-P/PL-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	CT, full height
Base:	CT
Floor Finish:	CT; (non-slip)
Slab Depression:	3" (75 mm)

Notes: 1) Extend shower pan waterproofing through drying area and provide floor drain.

SPECIAL EQUIPMENT

LIGHTING

General:	--
Special:	--

- Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
- 2) Recessed wet listed light fixture with 32 watt lamp.
- 3) The foot-candle level is average maintained.
- 4) Wall mounted fixture with fluorescent lamp.
- 5) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 6) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
- 7) Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown

Notes: 1) Junction box for connection to UV light box at 208V. Voltage, phase, and required connection per equipment manufacturer.

POWER (Cont'd)

- 2) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--

Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	From Toilet Only
100% Outside Air:	No
Room Air Balance:	Treatment Room Neutral (0) Toilet Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required

Notes: 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--

Notes:



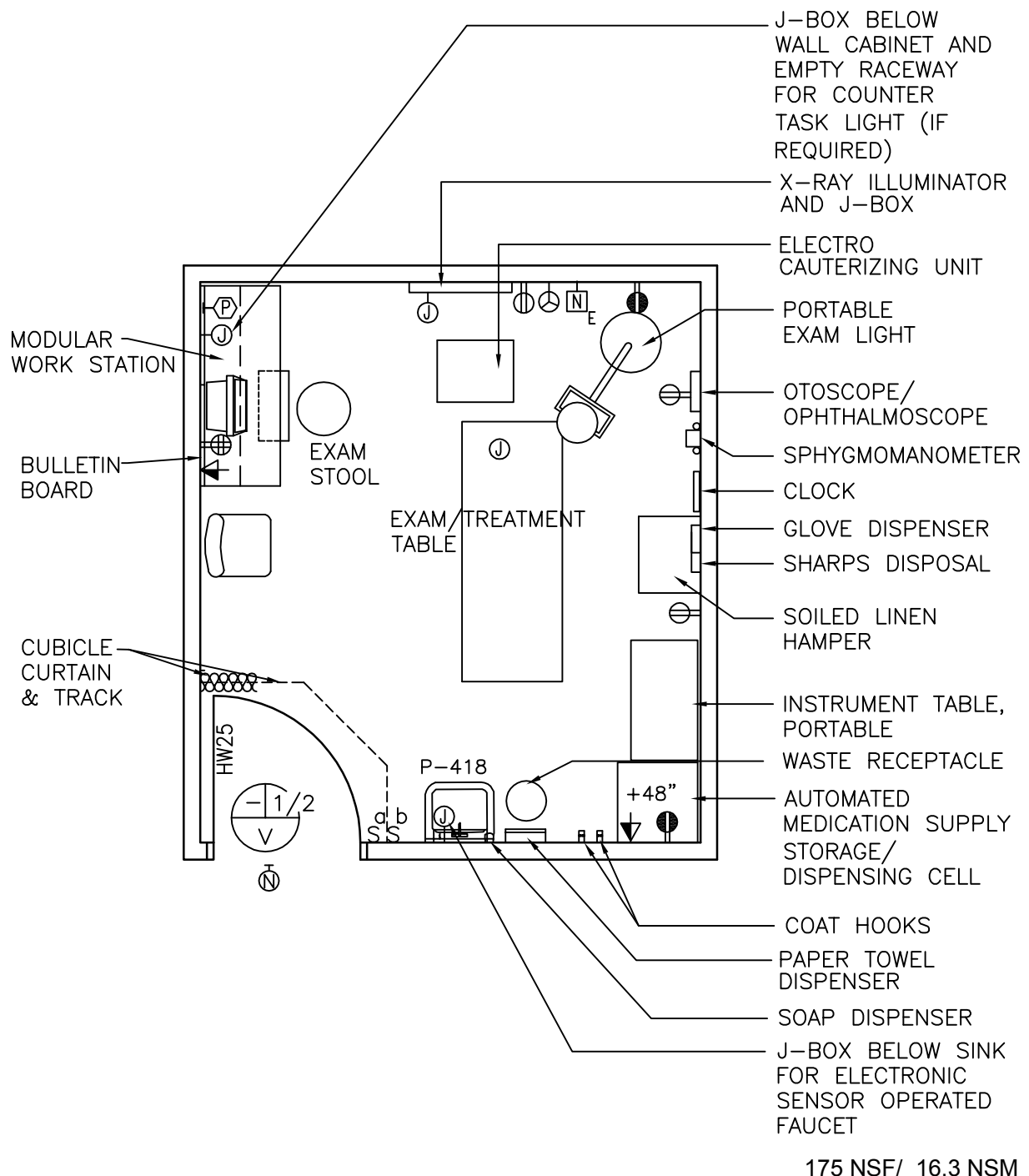
Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		2	CC	Power, for light boxes (PG-18-1, MCS 26 27 26). Verify equipment voltage
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A6105 or E0210		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 and 12 36 00)
D0795		1	CC	Sink, single bowl, CRS, self rimming (PG-18-1, MCS 12 36 00)
		1	CC	Nurse call emergency station on with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
F0465		1	VV	Cabinet, storage, steel, freestanding with 2 doors, 5 adjustable shelves and lock 36" W x 18" D x 84" H (900 mm W x 450 mm D X 2100 mm H)
F0205		1	VV	Chair, rotary, with arms
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
A5145		2	VV	Hook, coat, wall mounted
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M8192		1	VV	Hand and foot UV light box, on mobile stand, approx. 24" W x 24" D x 30" H (600 mm W x 600 mm D x 750 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 15" (380 mm) diameter
M1801		2	VV	PC, computer system, with keyboard
M7410, M8190		1	VV	Whole body UV light box, approx. 4" (100 mm) diameter in closed position
A5180		AR	VV	Curtain, cubicle
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
M3070		1	VV	Hamper, soiled linen and towels
R7000		1	VV	Refrigerator, domestic type, 15 cu ft (0.42 m ³), approx. 31" x 28" x 66" (775 mm x 700 mm x 1650 mm)
M3150		AR	VV	Automated supply storage/dispensing unit (cell), approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H) each cell



Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1) Floor Plan

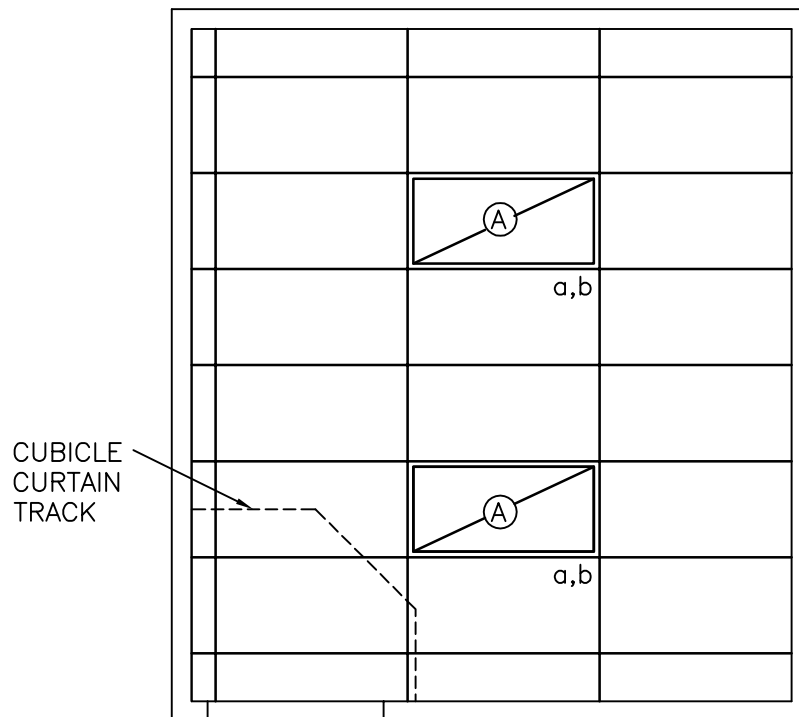


SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1) Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	Yes
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens w/ F32T8 lamps. Fluorescent lamp Kelvin temperature shall be 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Junction box x-ray illuminator. Connect per equipment manufacturer. Floor mounted junction box for powered exam and treatment table. Connect per equipment manufacturer. Coordinate location and height of work station receptacles with modular furniture. Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



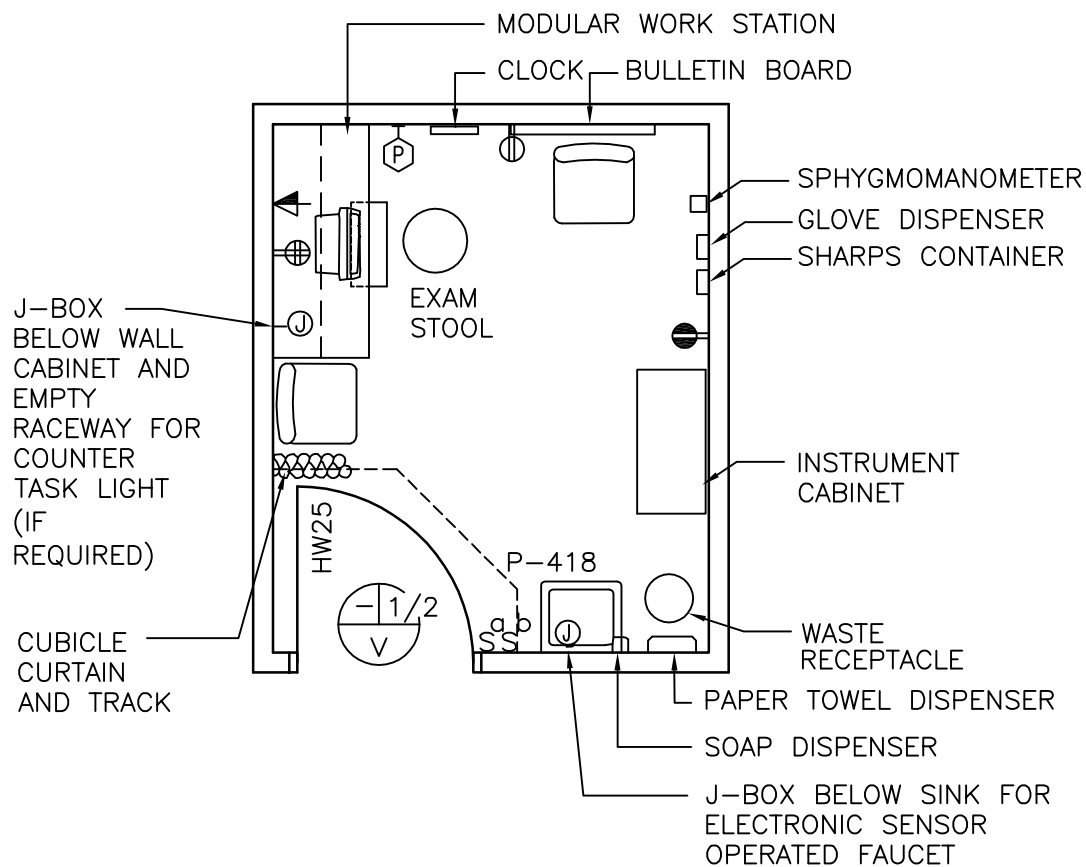
Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Junction box, floor, 120V power for examining table (PG-18-1, MCS 26 27 26)
A1010		2	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M7420		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
E0210		AR	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M3185		1	VV	Electro-surgical unit, mobile, approx. 21" W x 24" D (525 mm W x 600 mm D)
A5145		2	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M1801		1	VV	PC, computer system, with keyboard
F0210		1	VV	Chair, straight, without arms
M9066		1	VV	Table, examining and treatment, motorized
M8830		1	VV	Table, instrument, dressing, corrosion resisting steel, 20" W x 36" L x 35" H (500 mm W x 900 mm L x 875 mm H)
A5180		1	VV	Curtain, cubicle
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F0340		1	VV	Stool, examining, adjustable
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm) Note: F3010 is 48" x 48" (1200 mm x 1200 mm) and F3025 is wood frame.
A5106		1	VV	Sharps container
A5106		1	VV	Glove dispenser
M3070		1	VV	Hamper, soiled linen
M3150		AR	VV	Automated storage/dispensing unit (cell), secure; approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)

Ambulatory Care: ETM: Nurse Triage (EXRG4)

Floor Plan



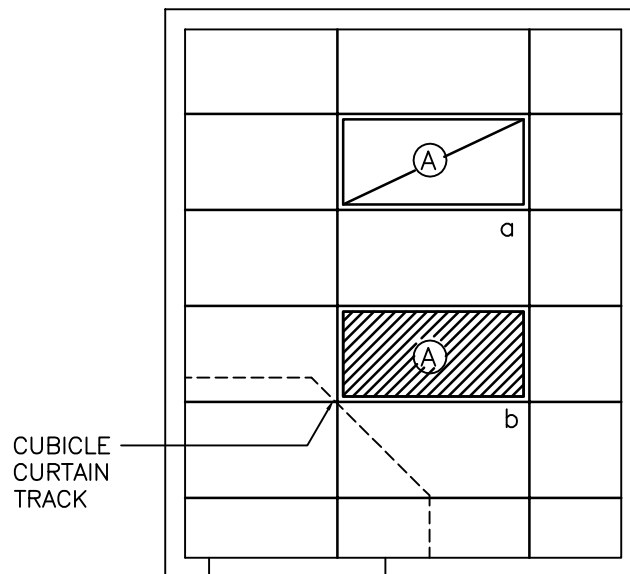
100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: ETM Nurse Triage (EXRG4) Reflected Ceiling Plan



100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: ETM Nurse Triage (EXRG4)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture. Parabolic louver w/ F32T8 lamps, 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	Yes
100% Outside Air:	Only if served by 100% OA (Outside Air) AHU
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



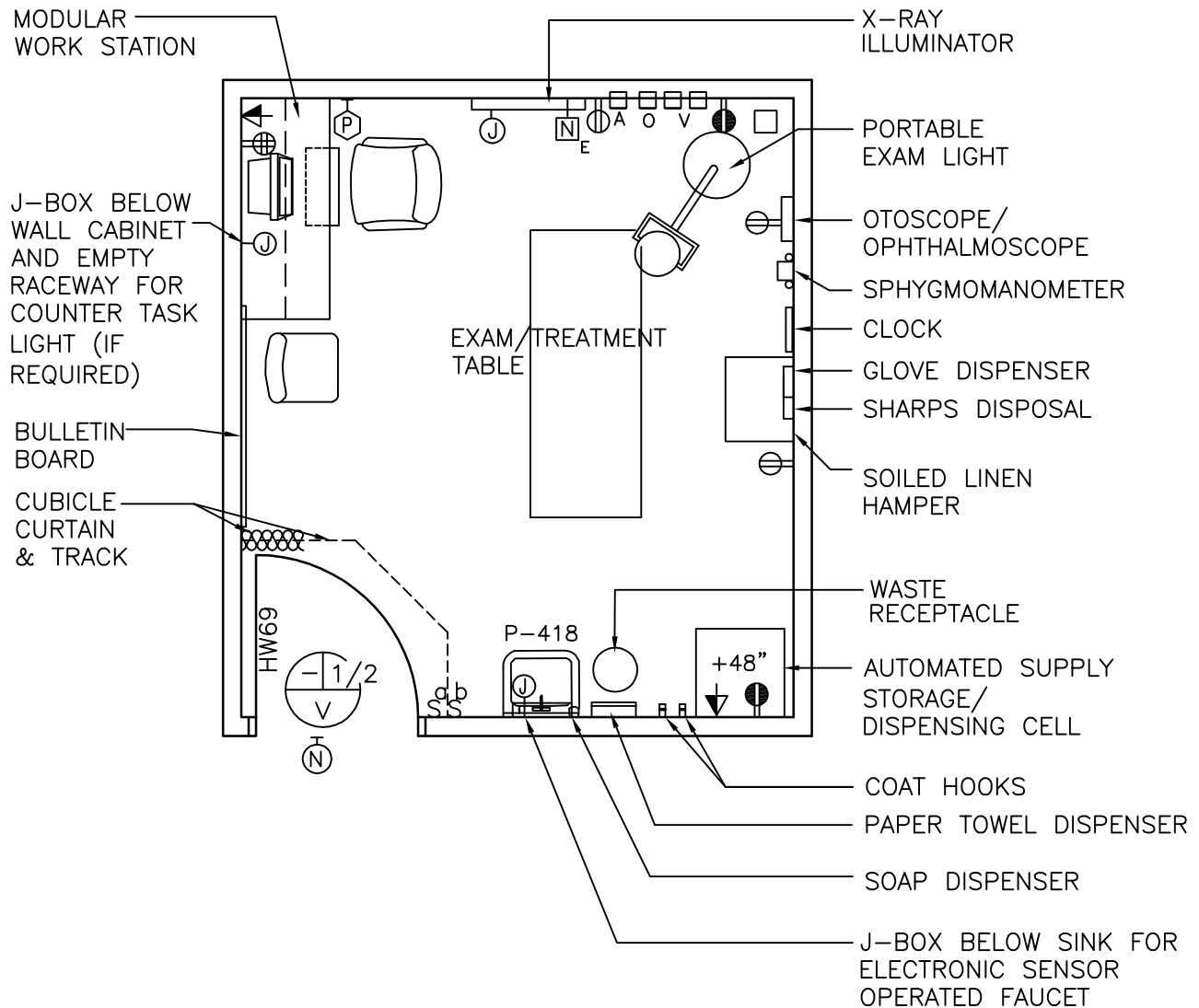
Ambulatory Care: ETM Nurse Triage (EXRG4)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5180		1	VV	Curtain, cubicle
F0210		AR	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted



Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1) Floor Plan



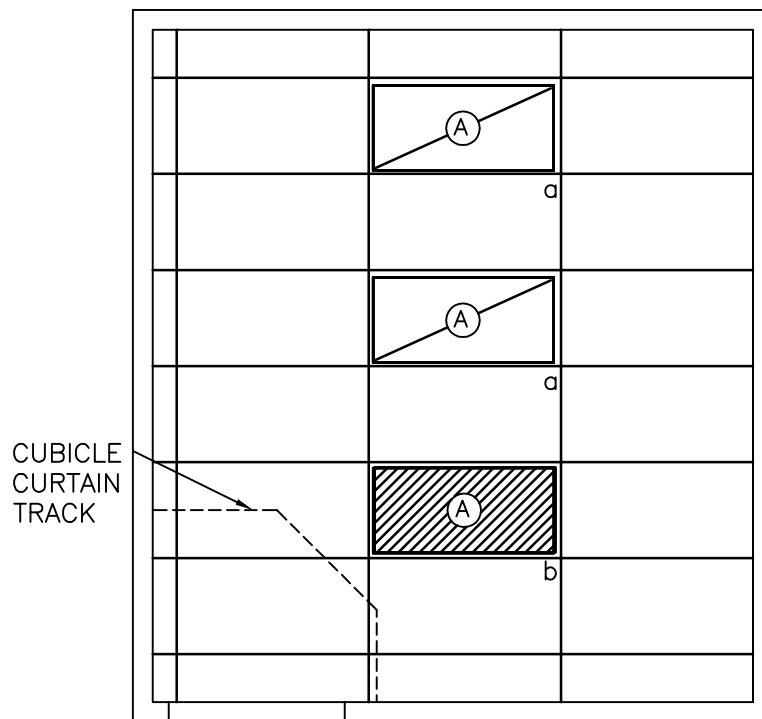
175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1) Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

As Required

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps. Color corrected lamps having a color rendering index (CRI) of 70 or above with color temperature of 3500°K. 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Lighting; portable light; x-ray illuminator; select receptacles shall be on emergency power. 2) Coordinate location and height of work station receptacles with modular furniture. 3) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	5
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1)

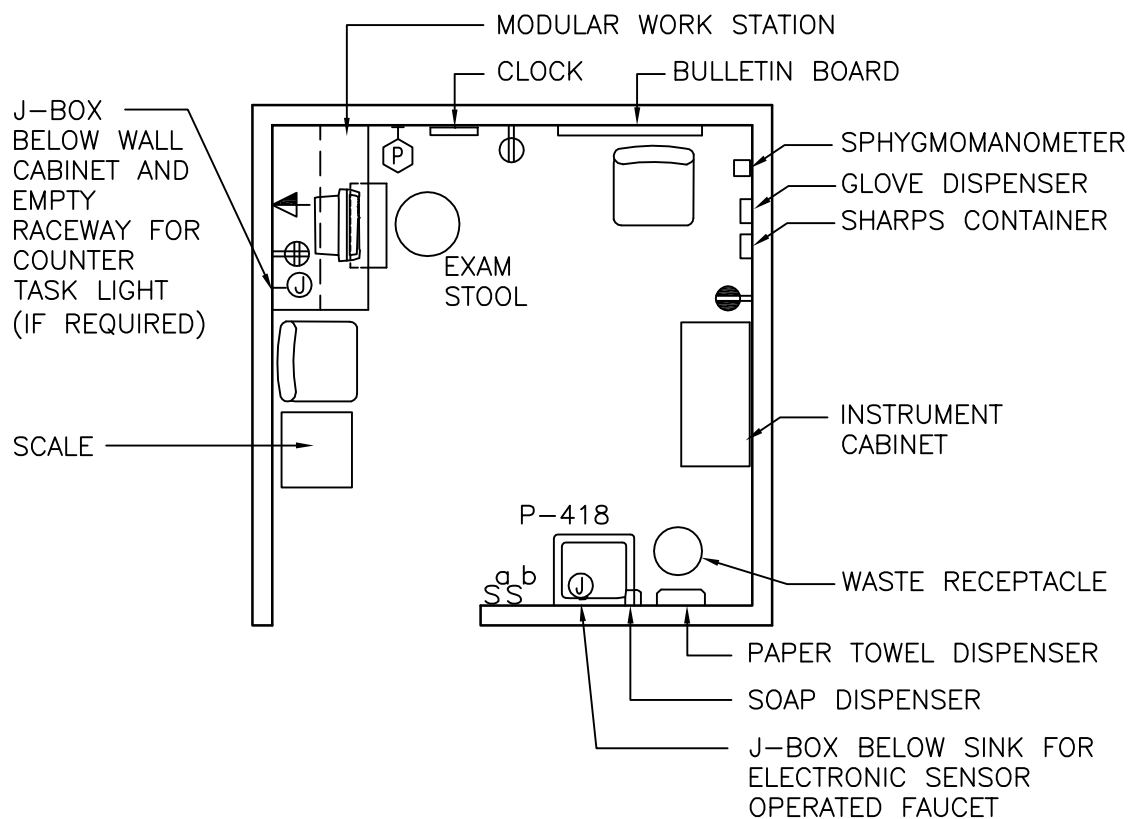
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5180		AR	CC	Track, curtain, cubicle, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
M8320		1	VV	Table, treatment, hi-lo, electrical, 120 volt, 30" x 78" x 32" (750 mm x 1950 mm x 800 mm)
		1	VV	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
M7401		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F3010 or F3025		1	VV	Bulletin board, 60" x 36" (1520 mm x 900 mm)
X3930		1	VV	Illuminator, x-ray film, 120 volt, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M4200		1	VV	Ophthalmoscope, wall hung
M4200		1	VV	Otoscope, wall hung
M4100		1	VV	Sphygmomanometer, wall hung
A5145		2	VV	Hook, coat, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5180		AR	VV	Curtain, cubicle
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
M1801		1	VV	PC, computer system
F0205		1	VV	Chair, rotary, with arms
F0210		1	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
M3070		1	VV	Hamper, soiled linen
F0205		AR	VV	Automated storage/dispensing unit (cell), approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)



Ambulatory Care: ETM Vital Sign Station (EXRG4)

Floor Plan



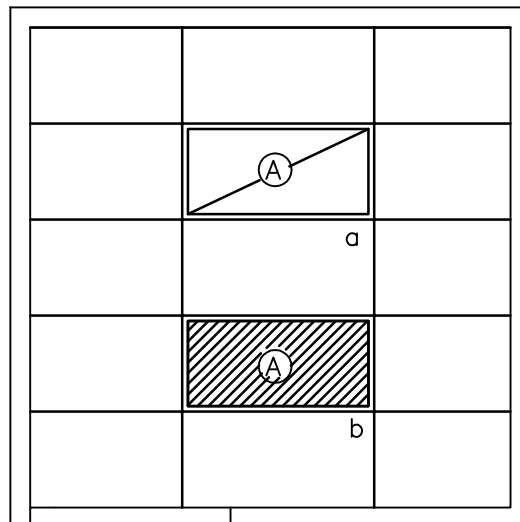
100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}$ " = 1'-0"



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: ETM Vital Sign Station (EXRG4) Reflected Ceiling Plan



100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: ETM Vital Sign Station (EXRG4)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

LIGHTING

General:	--
Special:	--

- Notes:
- 1) Switching per station
 - 2) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louvers, w/ F32T8 lamps 3500° K, CRI=70 (minimum).
 - 3) The foot-candle level is average maintained.
 - 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown

- Notes:
- 1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6 (Supply)
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



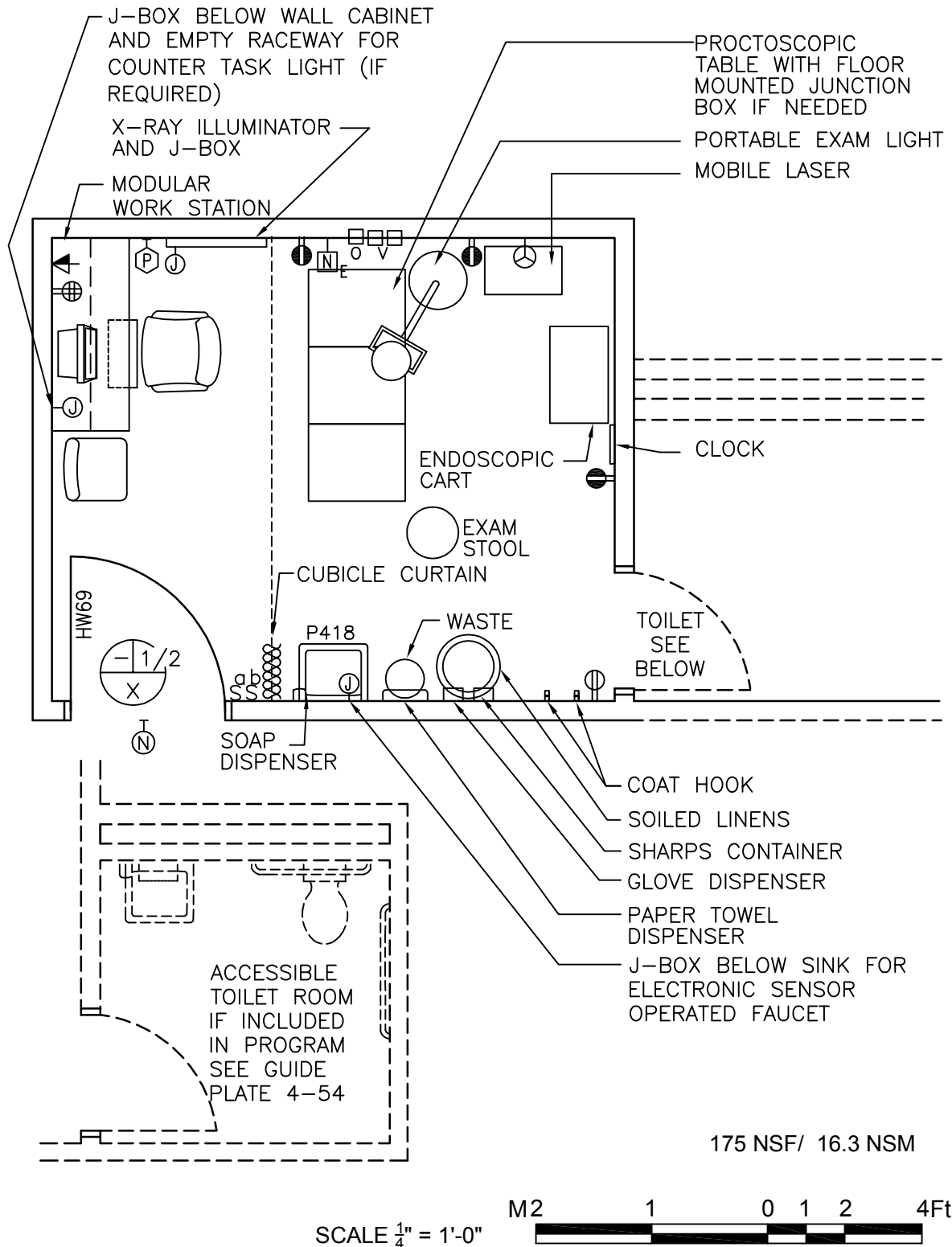
Ambulatory Care: ETM Vital Sign Station (EXRG4)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F0210		2	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M1801		1	VV	CRT, computer system, with keyboard pullout
M4100		1	VV	Sphygmomanometer, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
M4030		1	VV	Stand on scale
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted

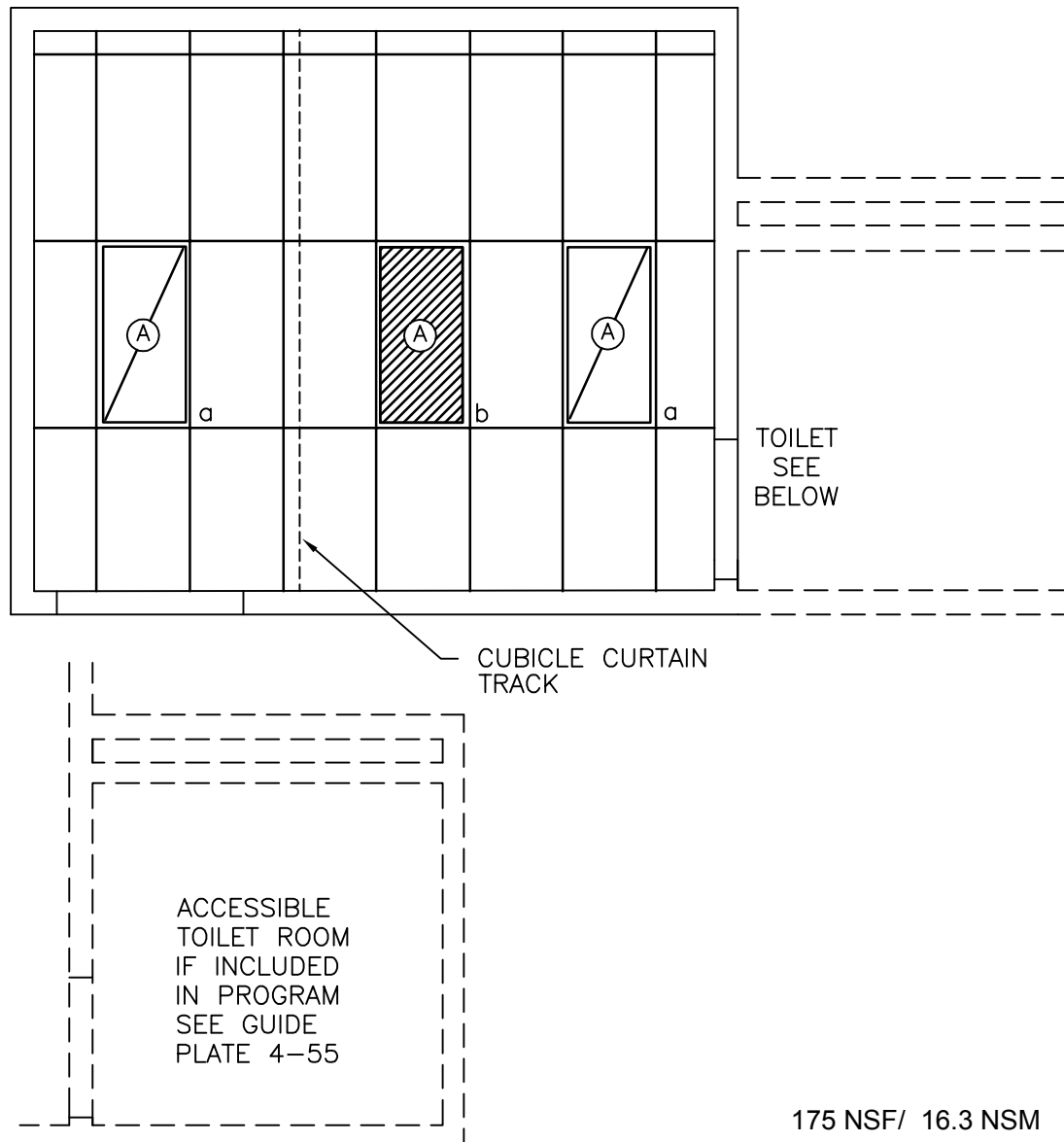


Ambulatory Care: GI Screening Proctoscopy/ Sigmoidoscopy Room (TRPE1) Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: GI Screening Proctoscopy/ Sigmoidoscopy Room (TRPE1) Reflected Ceiling Plan



SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: GI Screening Proctoscopy/Sigmoidoscopy Room(TRPE1)

Design Standards

ARCHITECTURAL

Ceiling: AT(SP); AT Toilet Room
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: GWB-SC
 Wainscot: CT 48" (1200 mm) in Toilet Room
 Base: RSF 6" (150 mm) Integral base
 Floor Finish: RSF; CT in Toilet Room
 Slab Depression: --
 Notes: --

SPECIAL EQUIPMENT**LIGHTING**

General: --
 Exam: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 5) Fluorescent nurse call light.

POWER

General: As Shown
 Emergency: As Shown
 Notes: 1) Special receptacle for laser equipment. (Coordinate with supplier.)
 2) Items on emergency power include selected receptacles, x-ray illumination, laser, general lighting.
 3) Coordinate location and height of work station receptacles with modular furniture.
 4) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes
 Telephone: Yes
 Intercom: --
 Nurse Call: Yes
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: Yes
 VTEL: --
 VA Satellite TV: --
 Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
 30 Percent to 50 Percent Relative Humidity
 Minimum Air Changes per Hour: 8 – Room
 10 – Toilet
 100% Exhaust: Yes
 100% Outside Air: Only if the AHU is 100% OA
 Room Air Balance: Negative (-)
 Dedicated Exhaust System: No
 Occupancy: 4
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: Yes
 Reagent Grade Water: --
 Medical Air: --
 Medical Vacuum: Yes
 Oxygen: Yes
 Notes: 1) Chilled water may be required for laser equipment. (Coordinate with equipment supplier.)



Ambulatory Care: GI Screening Proctoscopy/Sigmoidoscopy Room(TRPE1)

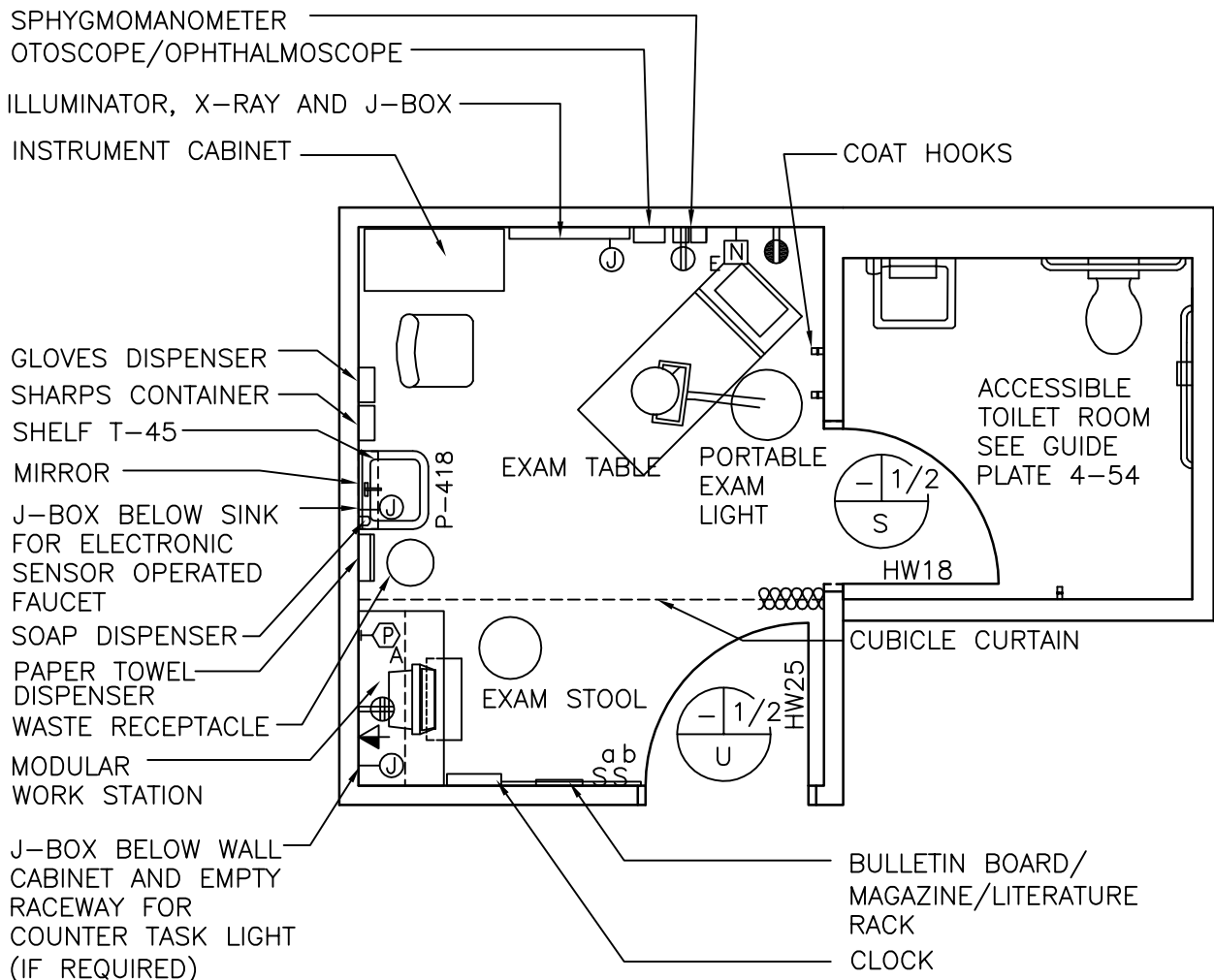
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M8605		AR	VV	Cart, endoscopic
F0205		1	VV	Chair, rotary, with arms
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
A5180		1	VV	Curtain, cubicle
M1801		1	VV	Desktop PC with keyboard
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M3185		1	VV	Electro-cauterizing unit, mobile, approx. 21" W x 24" D (525 mm W x 600 mm D)
M3070		1	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
A5154		AR	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M8525		1	VV	Laser, CO2, mobile
M7401		AR	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F0340		1	VV	Stool, examining, adjustable
M9065		1	VV	Table, proctoscopic, adjustable, hydraulically operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted



Ambulatory Care: GYN Exam Room (EXRG8)

Floor Plan



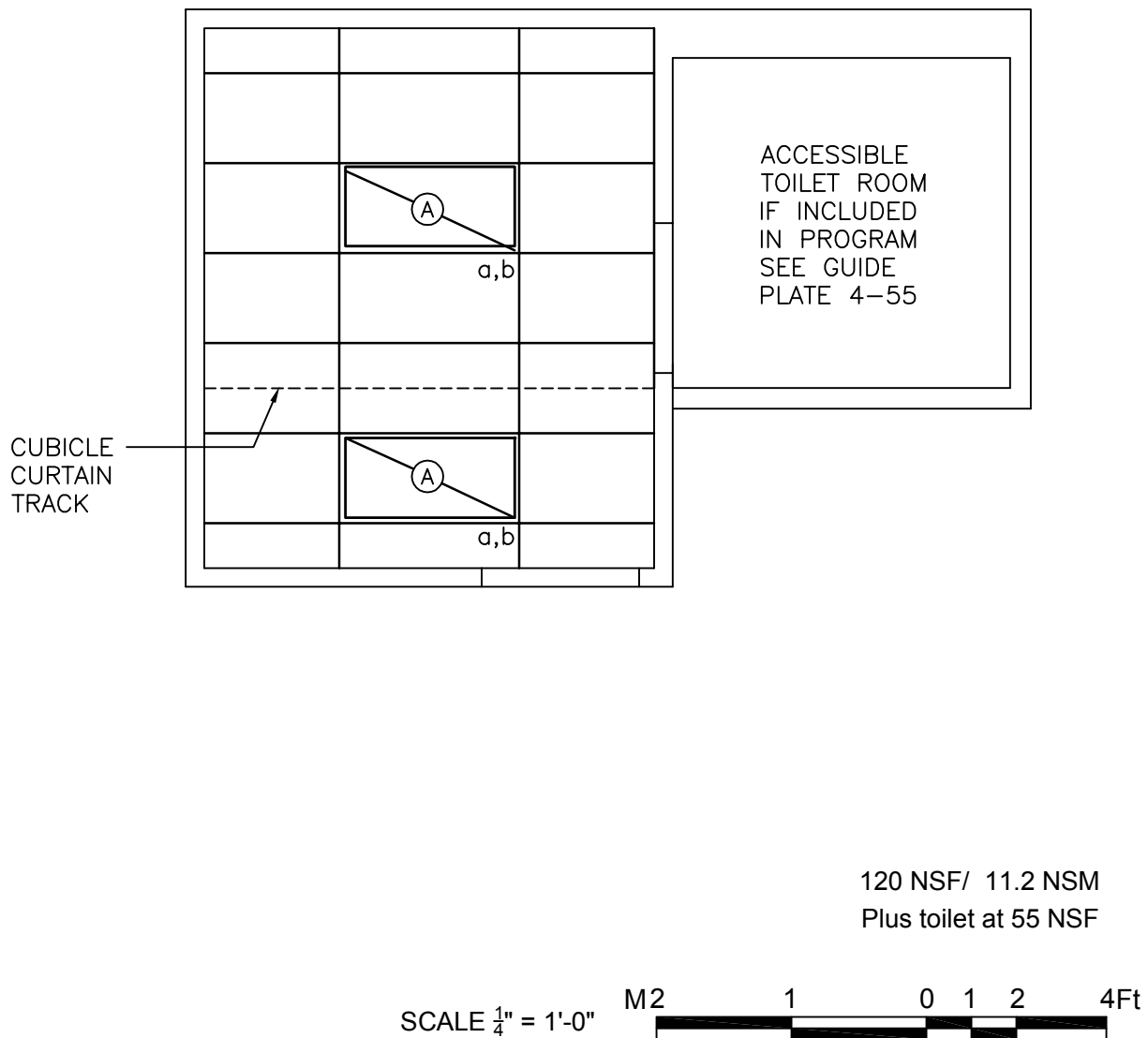
120 NSF/ 11.2 NSM
Plus toilet at 55 NSF

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: GYN Exam Room (EXRG8) Reflected Ceiling Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: GYN Exam Room (EXRG8)

Design Standards

ARCHITECTURAL

Ceiling:	GWB Lay-in Panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	48" (1200 mm); CT in Toilet Room
Base:	RB
	CT in Toilet Room
Floor Finish:	VCT
	CT in Toilet Room
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens. Lamps shall be F32WT8 with 3500°K and 70 minimum CRI. The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Junction box x-ray illuminator. Connect per equipment manufacturer. Recessed floor mounted junction box for exam and treatment table. Connection to equipment per manufacturer. Provide dedicated circuit. Verify wattage, voltage, and phase. Portable exam light. Coordinate location and height of work station receptacles with modular furniture. Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6 Examination Room
	10 Toilet Exhaust
100% Exhaust:	Yes (Toilet Only)
100% Outside Air:	No
Room Air Balance:	Neutral (0) – Examination Room
	Negative (-) Toilet Room
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



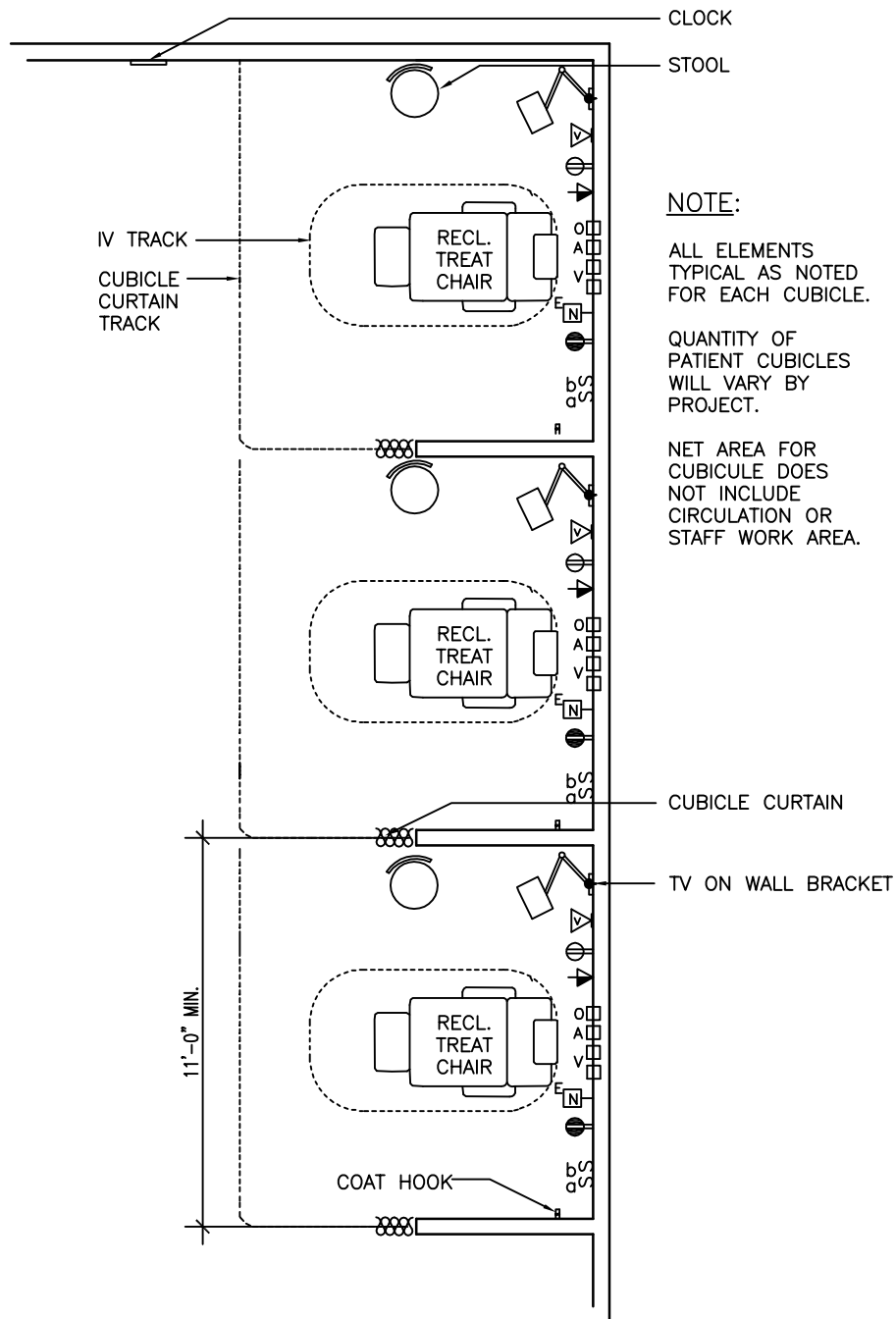
Ambulatory Care: GYN Exam Room (EXRG8)

Equipment List

FIXED EQUIPMENT AND UTILITIES				
JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
FURNISHINGS AND MOVABLE EQUIPMENT				
JSN	SYMBOL	QTY	AI	DESCRIPTION
X3930		AR	CC	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H) (PG-18-1, MCS 26 51 00)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	Desktop PC with keyboard
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M7401		1	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M4200		1	VV	Otoscope/ophthalmoscope, wall hung
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F3010 or F3025		1	VV	Bulletin board 30" x 42" (750 mm x 1050 mm)
A5145		2	VV	Hook, coat, wall mounted
F2300		1	VV	Magazine/literature rack, wall mounted
M4100		1	VV	Sphygmomanometer, wall hung
F0340		1	VV	Stool, examining, adjustable
M9066		1	VV	Table, examining and treatment, motorized
A5180		AR	VV	Curtain, cubicle
A5106		1	VV	Sharps container
A5106		1	VV	Glove dispenser



Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1) Floor Plan



3 Stations: 330 NSF/ 30.7 NSM

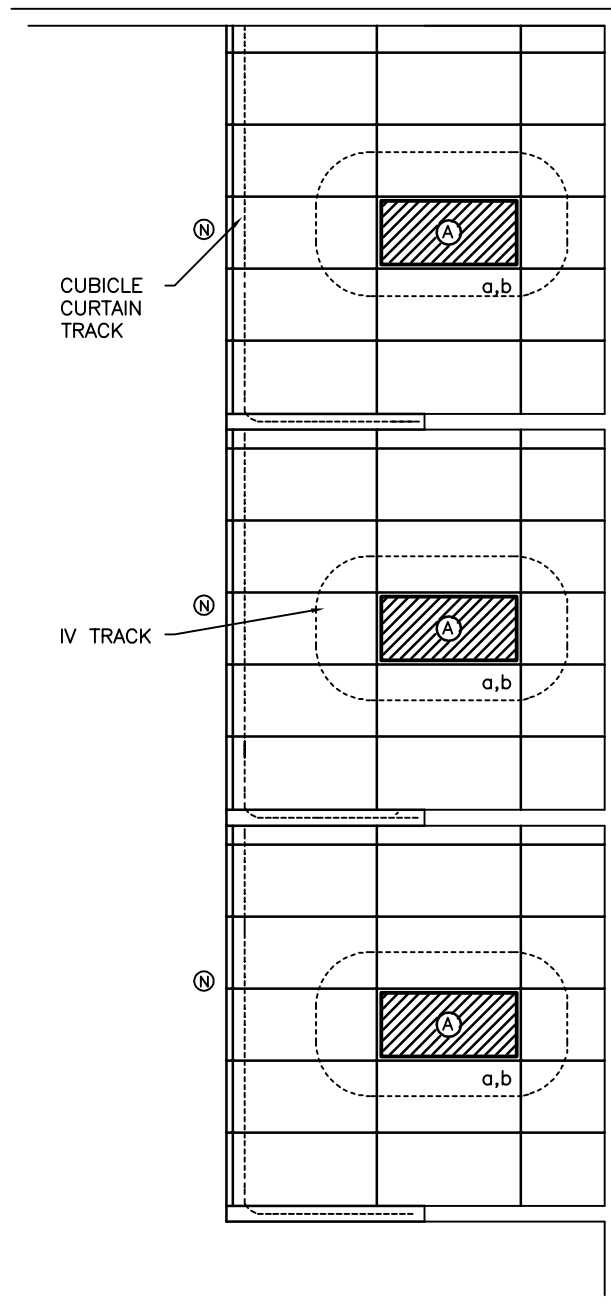
Max 8 stations: 830 NSF

SCALE $\frac{3}{16}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1) Reflected Ceiling Plan



3 Stations: 330 NSF/ 30.7 NSM

Max 8 stations: 830 NSF

SCALE $\frac{3}{16}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	RSF
Floor Finish:	RSF
Slab Depression:	--
Sound Protection:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens and F32T8 lamps, 3500°K, CRI=70 (minimum). Patient task lighting. The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	Yes
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	10 - CV
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	8
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1)

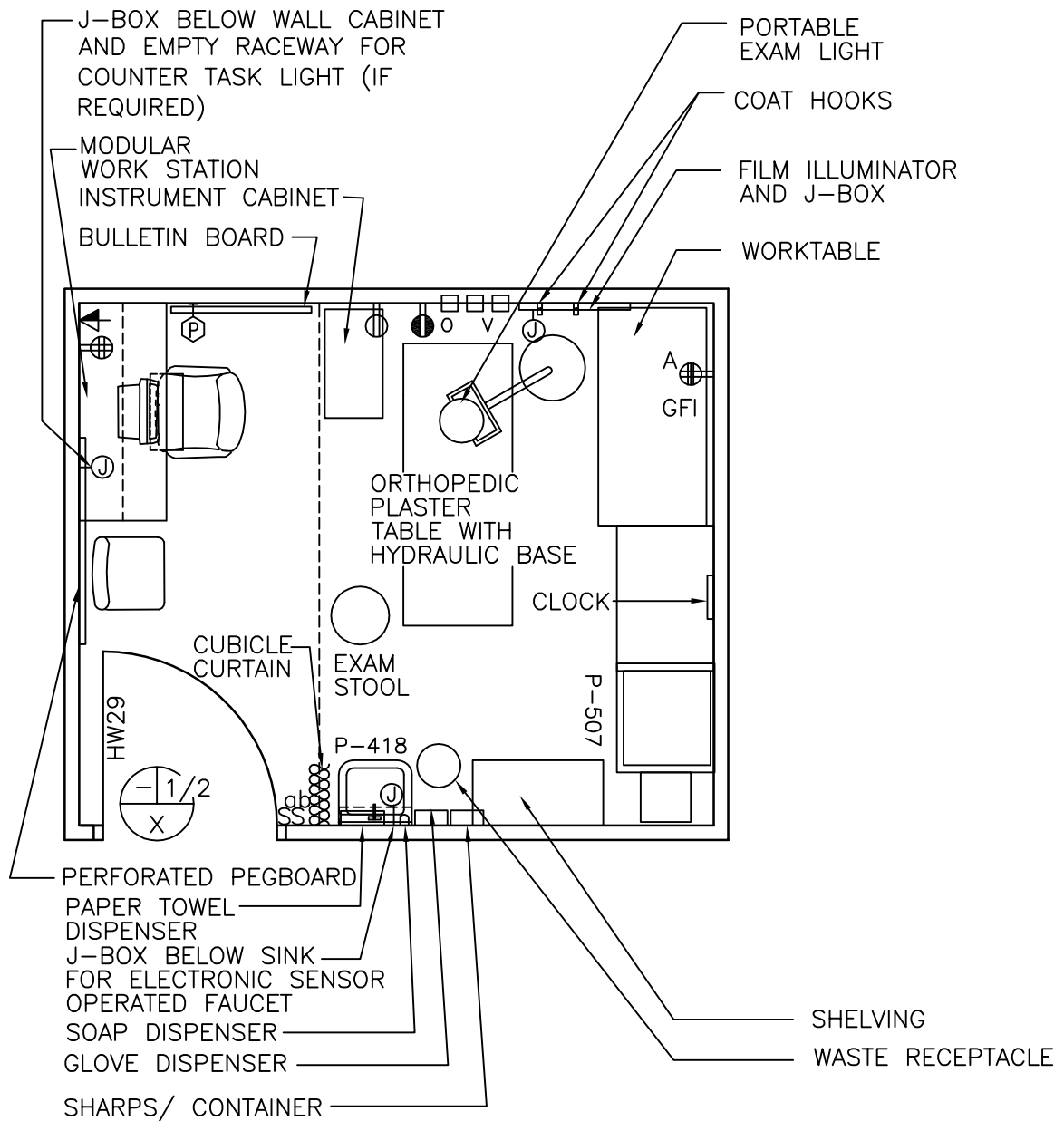
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A5210 & A5220		AR	CC	Bracket, wall mounted, television receiver (PG-18-1, MCS 27 41 31)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1165		AR	CC	Track, intravenous, ceiling mounted, continuous loop track and vertical adjustment (one for each reclining chair or stretcher) (PG-18-1, MCS 10 21 23)
		AR	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Outlet, video (PG-18-1, MCS 27 41 31)
F0265		AR	VV	Chair, reclining, upholstered, 36" x 38" x 72" (900 mm x 950 mm x 1800 mm) (extended)
F3200		1	VV	Clock, atomic, battery operated
A5145		AR	VV	Hook, coat, wall mounted
M4655		AR	VV	Stretcher, treatment
M0505		AR	VV	Television, color, wall mounted
A5180		AR	VV	Curtain, cubicle
F0340		AR	VV	Stool, adjustable height, with back



Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)

Floor Plan



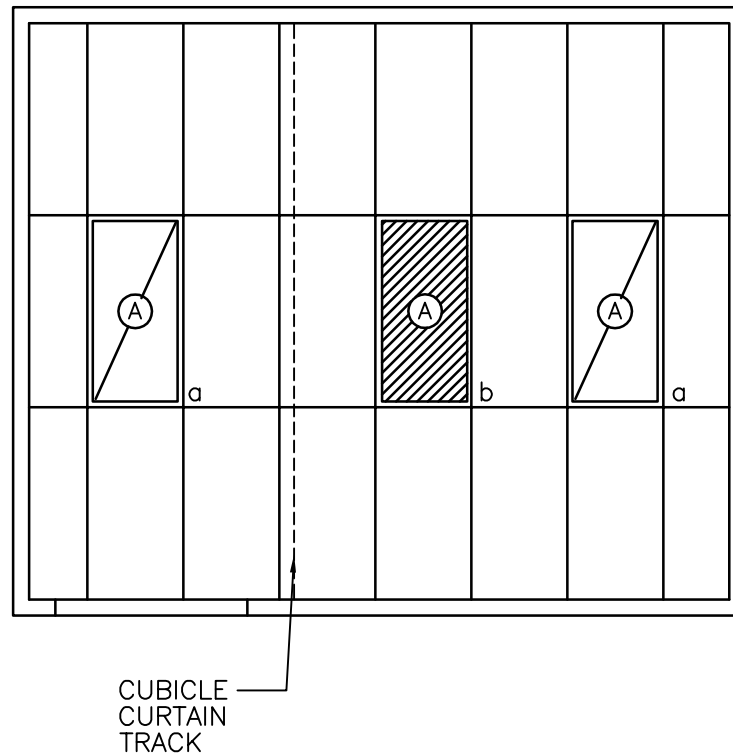
175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1) Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P/PL-P
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Base
Floor Finish:	RSF
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

LIGHTING

General:	--
Exam:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station receptacles with modular furniture. Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> Designer shall address special exhaust requirements for equipment within Cast Room. Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)

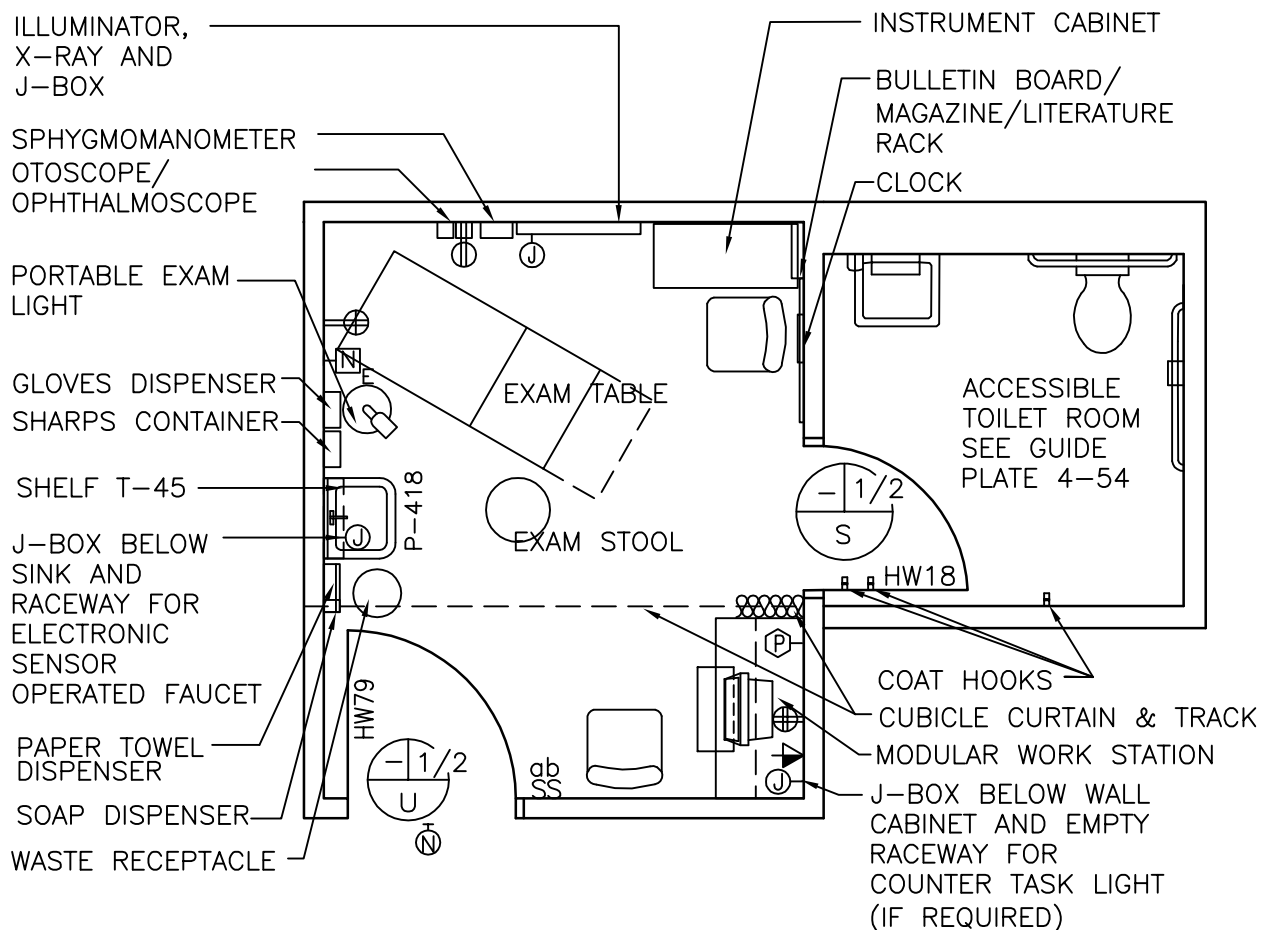
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
C0052		1	CC	Pegboard, perforated, heavy duty, with hangers, 48" x 96" (1200 mm x 2400 mm) (PG-18-1, MCS 06 20 00)
CS150	P-507	1	CC	Sink, single compartment, CRS drain board without corrugations (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling mounted (PG-18-1, MCS 10 21 23)
		AR	CC	Outlet, oxygen (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, medical vacuum (PG-18-1, MCS 22 62 00)
		AR	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26) for computer equipment
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
F3010 or F3025		1	VV	Bulletin board, 48" W x 36" H (1200 mm W x 900 mm H)
M3085		1	VV	Cabinet, instrument and dressing, 30" W x 16" D x 60" H (750 mm W x 400 mm D x 1520 mm H)
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		2	VV	Hook, coat, wall mounted
X3930		AR	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7420		AR	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M1801		1	VV	PC, computer system, with keyboard
M2055		AR	VV	Shelving, floor standing, steel, 4 or 5 adjustable shelves, 36" W x 18" D x 84" H (900 mm W x 450 mm D x 2100 mm H)
F0340		1	VV	Stool, examining, adjustable
M9075		1	VV	Table, orthopedic, portable plaster table, hydraulic base
K1910		1	VV	Table, work, corrosion resisting steel top, metal frame, 1 drawer and 1 shelf, 60" W x 30" D x 34" H (1520 mm W x 750 mm D x 850 mm H)
A5106		AR	VV	Sharps container, wall mounted
A5106		AR	VV	Glove dispenser, wall mounted
A5180		AR	VV	Curtain, cubicle
E0210		AR	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		1	VV	Chair, rotary, with arms
F0210		1	VV	Chair, straight, without arms



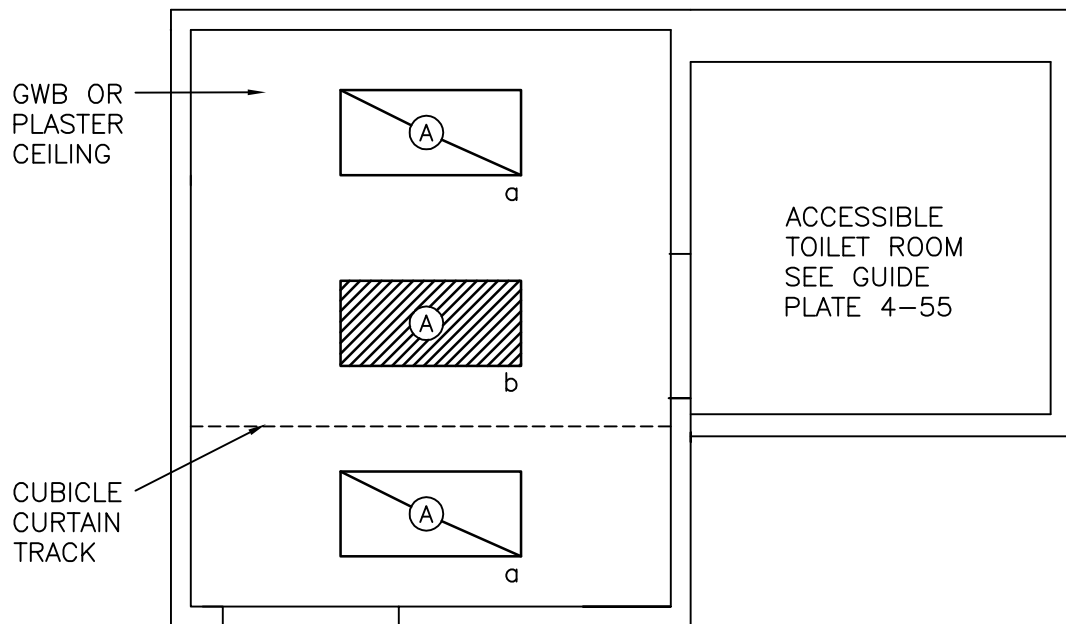
Ambulatory Care: UC Infectious Isolation Room (BRIT1)

Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: UC Infectious Isolation Room (BRIT1) Reflected Ceiling Plan



120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: UC Infectious Isolation Room (BRIT1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB-P/PL-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens. 2) Lamps shall have a color temperature of 3500°K and color rendering index (CRI) not less than 70. 3) The foot-candle level is average maintained. 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 6) Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Junction box x-ray illuminator. Connect per equipment manufacturer. 2) Coordinate location and height of work station receptacles with modular furniture. 3) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING (ISOLATION ROOM)

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	Yes
	See HVAC Design Manual for the details for Special Exhaust System
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Ambulatory Care: UC Infectious Isolation Room (BRIT1)

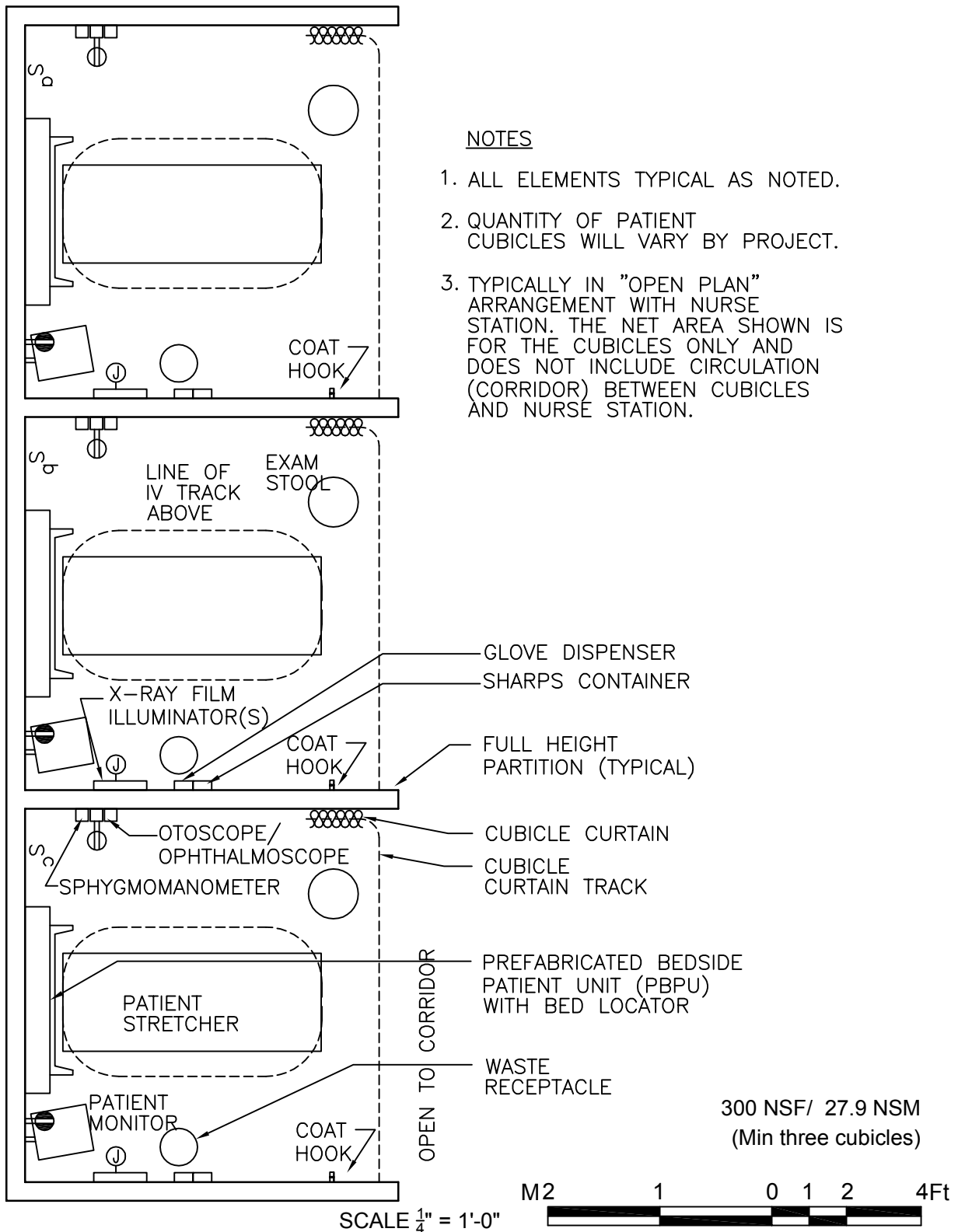
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" x 5" (300 mm x 125 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, Code 1 (blue), emergency station, with corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
F0210		2	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		1	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted



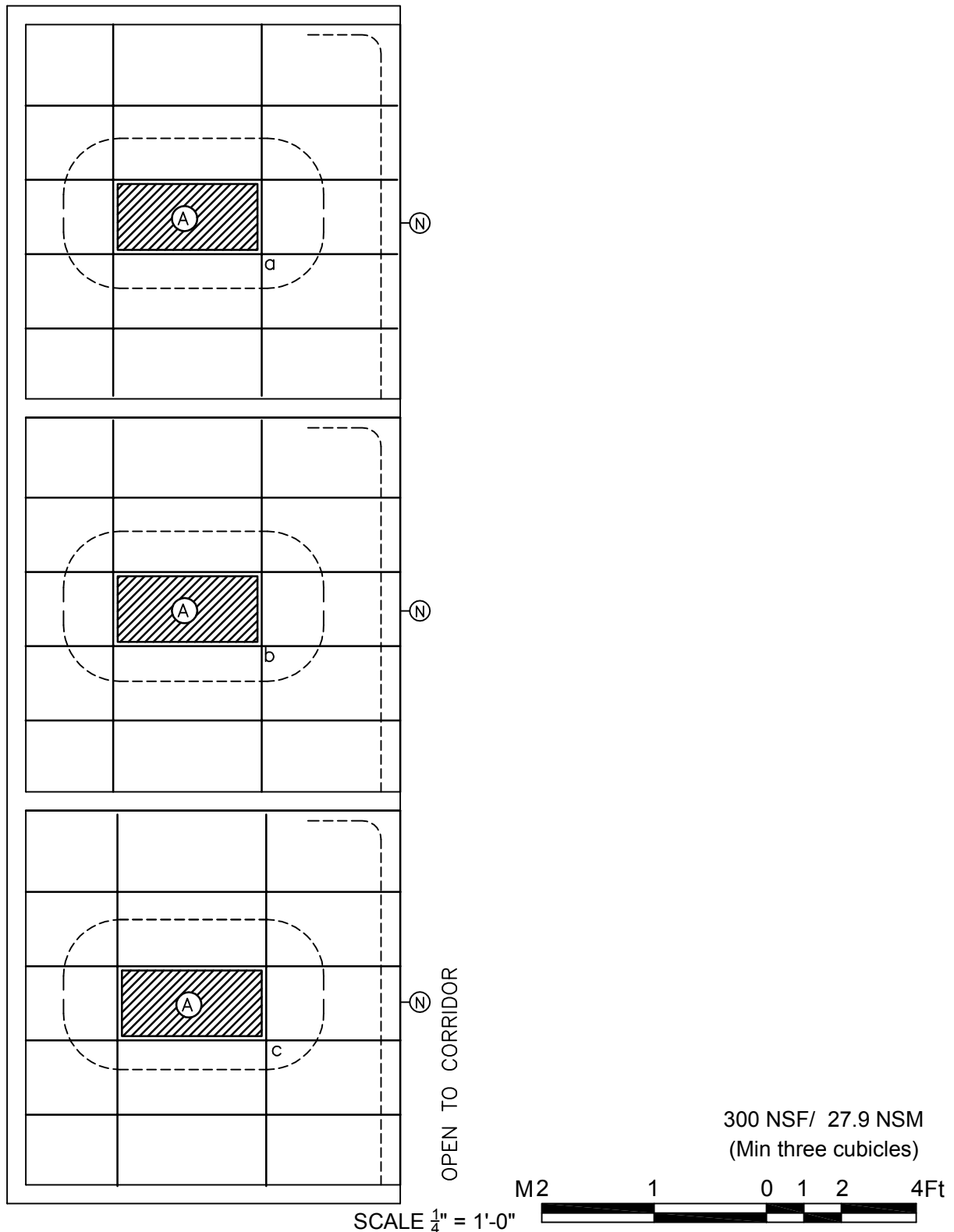
Ambulatory Care: UC Monitored Beds (BRUN1)

Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: UC Monitored Beds (BRUN1) Reflected Ceiling Plan



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Ambulatory Care: UC Monitored Beds (BRUN1)

Design Standards

ARCHITECTURAL

Ceiling: AT (SP)
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: PL-SC/GWB-SC
 Wainscot: --
 Base: RSF 6" (150 mm) Integral Cove
 Floor Finish: RSF
 Slab Depression: --
 Notes: 1) Entrance doors to observation and treatment area should be double doors with remote push-plate door operator.

SPECIAL EQUIPMENT

--

LIGHTING

General: --
 Special: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=80 (minimum).
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 5) Fluorescent nurse call dome light with 13W lamp.

POWER

General: As Shown
 Emergency: As Shown
 Notes: 1) Selected receptacles, PBPU's, x-ray illuminator shall be on emergency power.

COMMUNICATION/SPECIAL SYSTEMS

Data: --
 Telephone: Yes
 Intercom: --
 Nurse Call: Yes
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: --

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 75°F +/- (24°C)
 Dry-Bulb Temperature
 30 Percent to
 50 Percent
 Relative Humidity
 Minimum Air Changes per Hour: 6
 100% Exhaust: No
 100% Outside Air: No
 Room Air Balance: Neutral (0)
 Dedicated Exhaust System: No
 Occupancy: 2 per Patient Bed
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: Yes
 Reagent Grade Water: --
 Medical Air: Yes
 Medical Vacuum: Yes
 Oxygen: Yes
 Notes: --



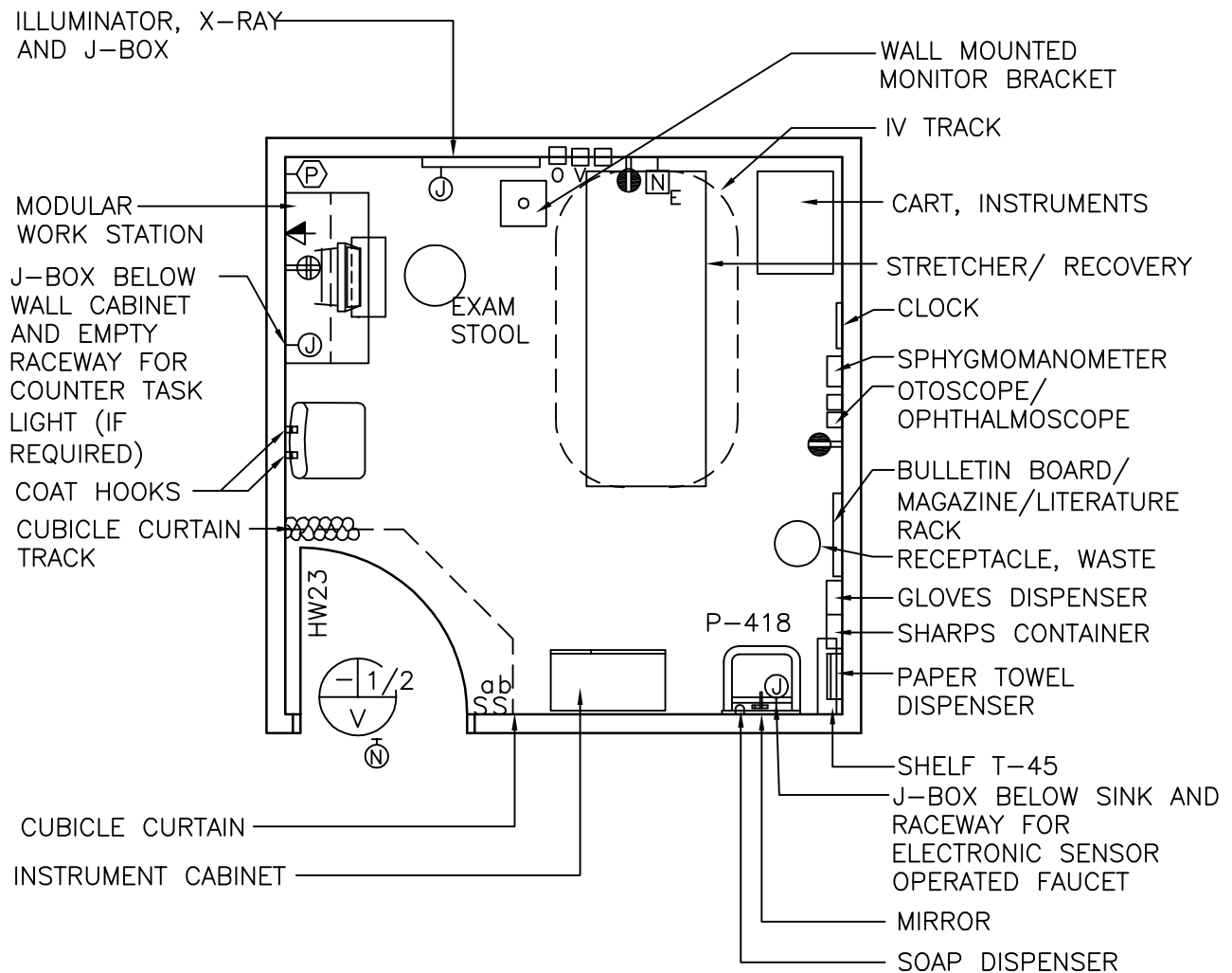
Ambulatory Care: UC Monitored Beds (BRUN1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		AR	CC	Bracket, monitor, wall mounted (PG-18-1, MCS 27 41 31)
A1165		AR	CC	Track, IV, ceiling mounted, continuous loop with IV tree (PG-18-1, MCS 10 21 23)
		AR	CC	Prefabricated Bedside Patient Unit; Type A1 (PG-18-1, MCS 10 25 13) (1) Receptacle, electrical, for reading-exam light, location optional (1) Bracket, for stem base reading-exam light (1) Bumper, wraparound, protruding (1) Light, reading-exam, stem base (1) Nurse call, Code 1 (blue) connector for hand held nurse call unit (1) Outlet, medical air (1) Outlet, oxygen (1) Outlet, medical vacuum (1) Telephone
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
M7845		AR	VV	Monitor, physiological, ECG, HRT, BP, OX
F2017		AR	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter
A4655		AR	VV	Stretcher, recovery
A5106		AR	VV	Sharps container, wall mounted
A5106		AR	VV	Glove dispenser, wall mounted
A5145		AR	VV	Hook, coat, wall mounted
X3930		AR	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		AR	VV	Light, examining, portable, 120 volts, 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M4200		AR	VV	Ophthalmoscope, wall hung
M4200		AR	VV	Otoscope, wall hung
M4100		AR	VV	Sphygmomanometer, wall hung
F0340		AR	VV	Stool, examining, adjustable
A5180		AR	VV	Curtain, cubicle



Ambulatory Care: UC Observation and Treatment Room (OOHR1) Floor Plan



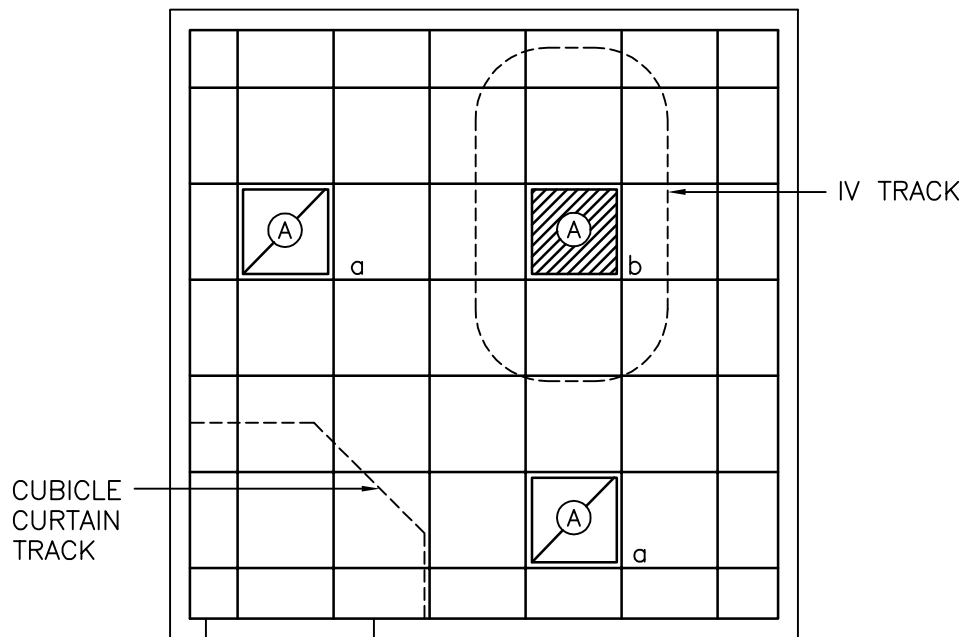
150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Ambulatory Care: UC Observation and Treatment Room (OOHR1) Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Ambulatory Care: UC Observation and Treatment Room (OOHR1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	PL-SC/GWB-SC
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Cove
Floor Finish:	RSF
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fluorescent nurse call light with 13 W lamp.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station receptacles with modular furniture. 2) Exam table may be wall outlet connected. 3) Emergency power for physiological monitor.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2 per Patient Bed
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Ambulatory Care: UC Observation and Treatment Room (OOHR1)

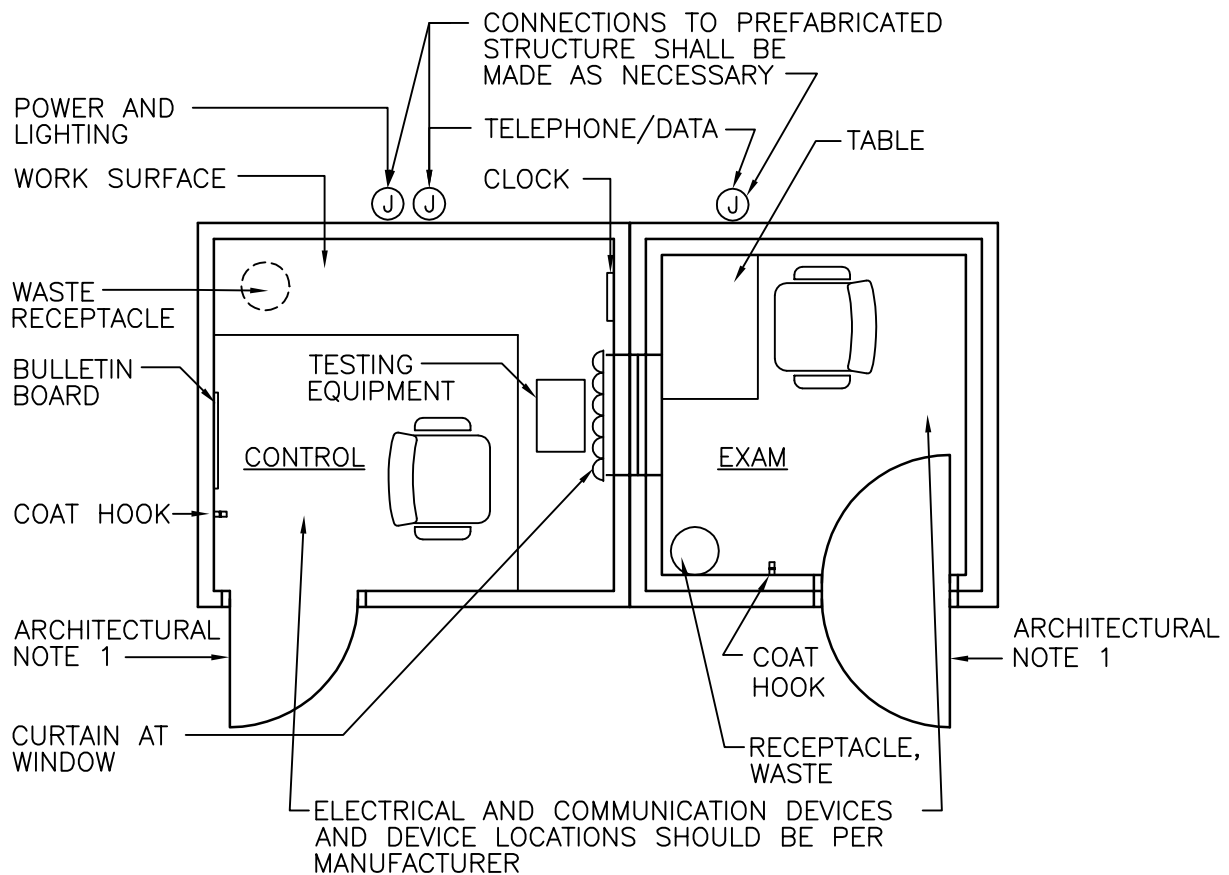
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A1066		1	CC	Mirror, 16" W x 20" H (400 mm W x 500 mm H), with integral shelf, over lavatory (PG-18-1, MCS 10 28 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Bracket, monitor, wall mounted
A1165		AR	CC	Track, IV, ceiling mounted, continuous loop with IV tree (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5180		AR	CC	Curtain, cubicle
		1	CC	Nurse call, Code 1 (blue), emergency station, with corridor signal light (PG-18-1, MCS 27 52 23)
E0210		AR	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M7845		1	VV	Monitor, physiological, ECG, HRT, BP, OX
F2017		1	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter
M4655		1	VV	Stretcher, recovery
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M8830		1	VV	Cart, mobile, instrument, 36" x 20" (900 mm x 500 mm)
F0210		AR	VV	Chair, straight, without arms
		2	VV	Hook, coat, wall mounted
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
M4200		1	VV	Otoscope, wall hung
		1	VV	Stool, examining, adjustable



Audiology: Booth Audiometric Exam (PEHS1)

Floor Plan



PREFABRICATED EXAM SUITE

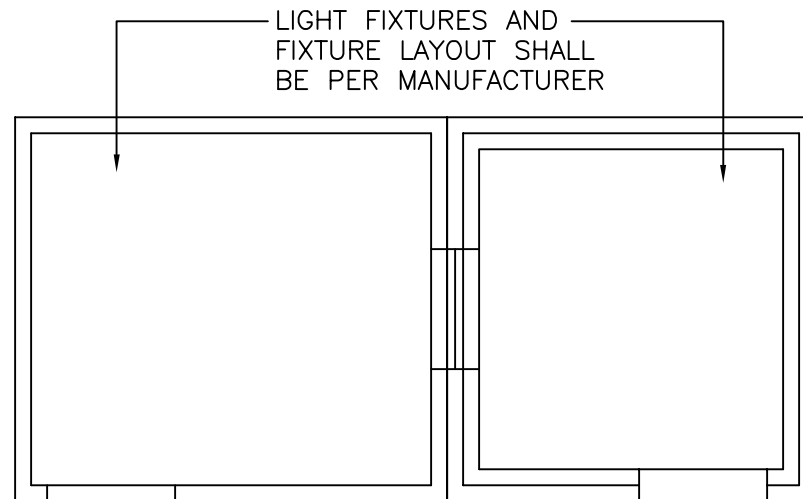
130 NSF/ 12.1 NSM
(Included booth walls)

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Audiology: Booth Audiometric Exam (PEHS1) Reflected Ceiling Plan



130 NSF/ 12.1 NSM
(Included booth walls)

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Audiology: Booth Audiometric Exam (PEHS1)

Design Standards

ARCHITECTURAL

Ceiling: Finishes shall be as per manufacturer's standard model as selected.

Slab Depression: Approximately 4" (100 mm) coordinate with manufacturer.

- Notes: 1) 3'-0" (900 mm) wide door. Doors and hardware furnished with prefabricated audio booth.
- 2) Perimeter GWB partition full height. Acoustic blanket over ceiling.
- 3) For Audio Suite details see VA Bulletin #1E11-87.

SPECIAL EQUIPMENT

--

LIGHTING

General: As Required

Special: --

- Notes: 1) Lighting to be as per manufacturer's standards.

POWER

General: As Shown

Emergency: As Shown

Notes: --

COMMUNICATION/SPECIAL SYSTEMS

Data: --

Telephone: --

Intercom: --

Nurse Call: --

Public Address: --

Radio/Entertainment: --

MATV: --

CCTV: --

MID: --

Security/Duress: --

VTEL: --

VA Satellite TV: --

Notes: --

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
30 Percent to 50 Percent Relative Humidity

Minimum Air Changes per Hour: 6

100% Exhaust: No

100% Outside Air: No

Room Air Balance: Neutral (0)

Dedicated Exhaust System: No

Occupancy: 3

AC Load-(Equipment): As Required

AC Load-(Light): As Required

- Notes: 1) Coordinate HVAC connections with the pre-fabricated acoustic booth for the exam room. Verify if the booth is equipped with any packaged HVAC system.

- 2) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water: --

Hot Water: --

Laboratory Air: --

Laboratory Vacuum: --

Sanitary Drain: --

Reagent Grade Water: --

Medical Air: --

Medical Vacuum: --

Oxygen: --

Notes: --



Audiology: Booth Audiometric Exam (PEHS1)

Equipment List

FIXED EQUIPMENT AND UTILITIES				
JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	VV	Prefabricated audiometric booth in accordance with individual project requirements. Size as required.
				Note: Coordinate electrical, telephone/data supplies and connections with equipment vendor.

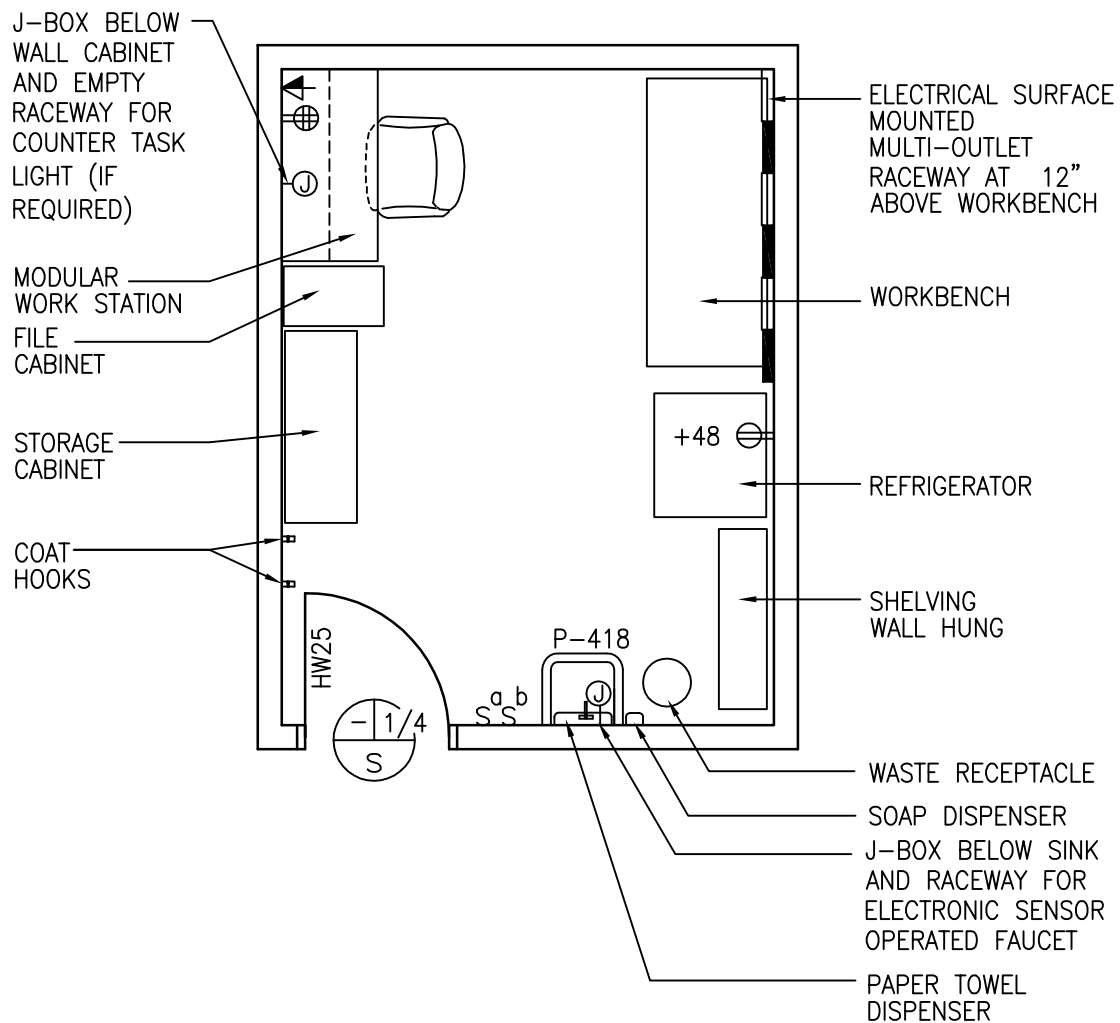
CONTROL ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
E0042		AR	VV	Modular work surface, 30" D x 30" H (750 mm D x 750 mm H)
F0280		AR	VV	Chair, rotary, with arms, approx. 30" W x 30" D (750 mm W x 750 mm D)
F2017		1	VV	Receptacle, waste, step on type, approx. 18" x 18" (450 mm x 450 mm)
A5185 & A6305		1	VV	A6305 curtain and A5185 rod, wall mounted over window
A5145		1	VV	Hook, coat, wall mounted
F3010 or F3025		1	VV	Bulletin board Note: F3010 is 48" x 48" (1200 mm x 1200 mm), F3025 is Wood Frame.
		1	VV	Testing equipment

EXAMINATION ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
F0860		1	VV	Table, single drawer, 24" W x 36" L (600 mm W x 900 mm L)
F2000		1	VV	Receptacle, waste, step on type approx. 18" x 18" (450 mm x 450 mm)
F0260		AR	VV	Chair, high back, straight, with arms
A5145		1	VV	Hook, coat, wall mounted



Audiology: Instrument Calibration & Storage Room (SRCH1)

Floor Plan



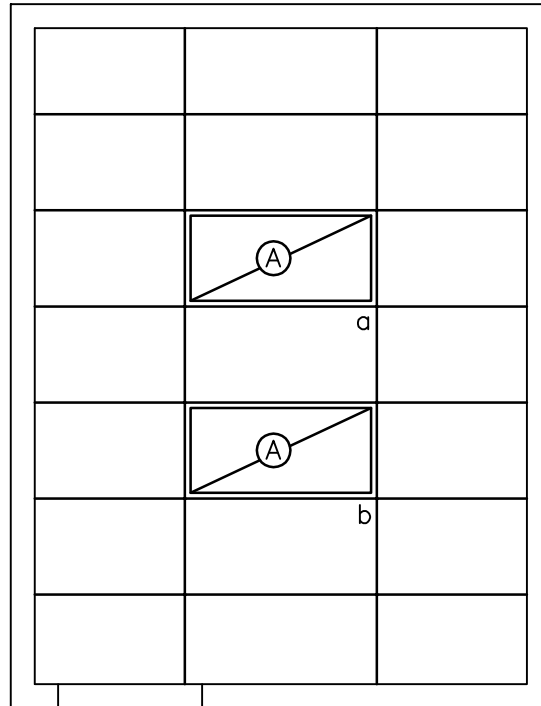
140 NSF/ 13.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Audiology: Instrument Calibration & Storage Room (SRCH1) Reflected Ceiling Plan



140 NSF/ 13.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Audiology: Instrument Calibration & Storage Room (SRCH1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Audiology: Instrument Calibration & Storage Room (SRCH1)

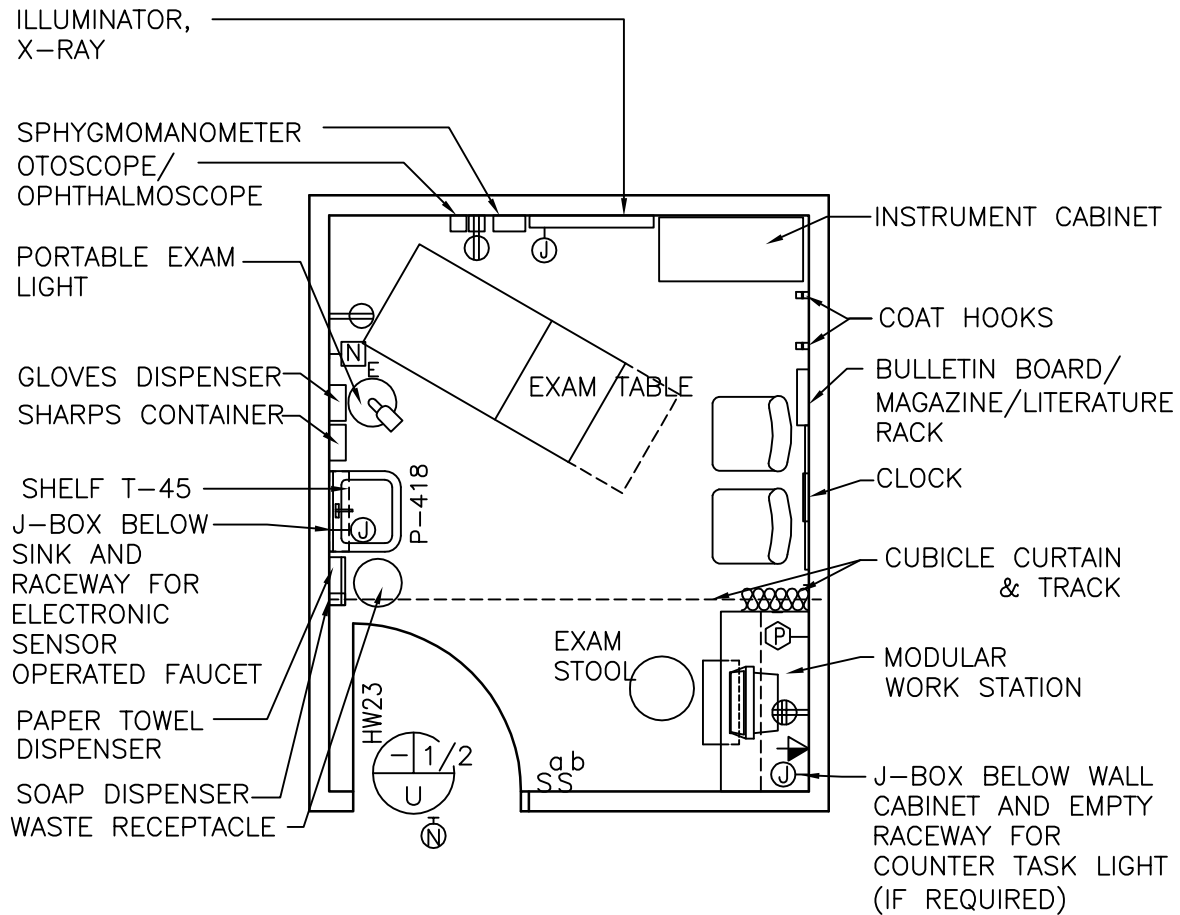
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
		AR	CC	Shelving, wall hung, standard and bracket type, 4 adjustable shelves, 12" D x length as required 45" (300 mm D x length as required 1125 mm) AFF (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical strip molding on 18" (450 mm) centers 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, quadruple, 120 volt (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
E210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		AR	VV	Chair, rotary, with arms
F0465		1	VV	Cabinet, storage, metal, 2 doors with lock, 48" W x 18" D x 78" H (1200 mm W x 450 mm D x 1950 mm H)
F0405		1	VV	Cabinet, filing (letter size), 5 drawer, 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)
A5145		2	VV	Hook, coat, wall mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
E0703		1	VV	Workbench, vinyl top with storage underneath
R7250		1	VV	Refrigerator, 120V
F2017		1	VV	Receptacle, waste, step on type, approx. 18" x 18" (450 mm x 450 mm)



Audiology: Office / Therapy Room (EXOS1)

Floor Plan



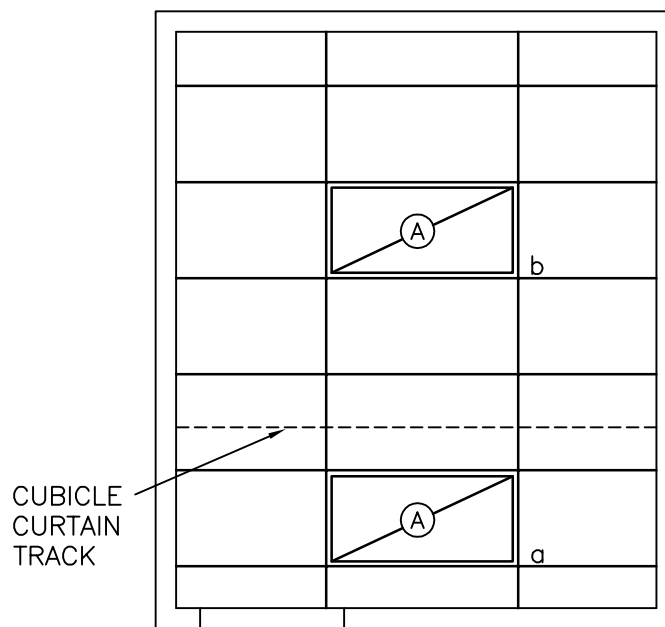
120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Audiology: Office / Therapy Room (EXOS1)
Reflected Ceiling Plan



120 NSF/ 12.1 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Audiology: Office / Therapy Room (EXOS1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens w/ F32T8 lamps 3500°K, CRI=75 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) Fluorescent nurse call light with 13 W lamp.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station receptacles with modular furniture. 2) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Audiology: Office / Therapy Room (EXOS1)

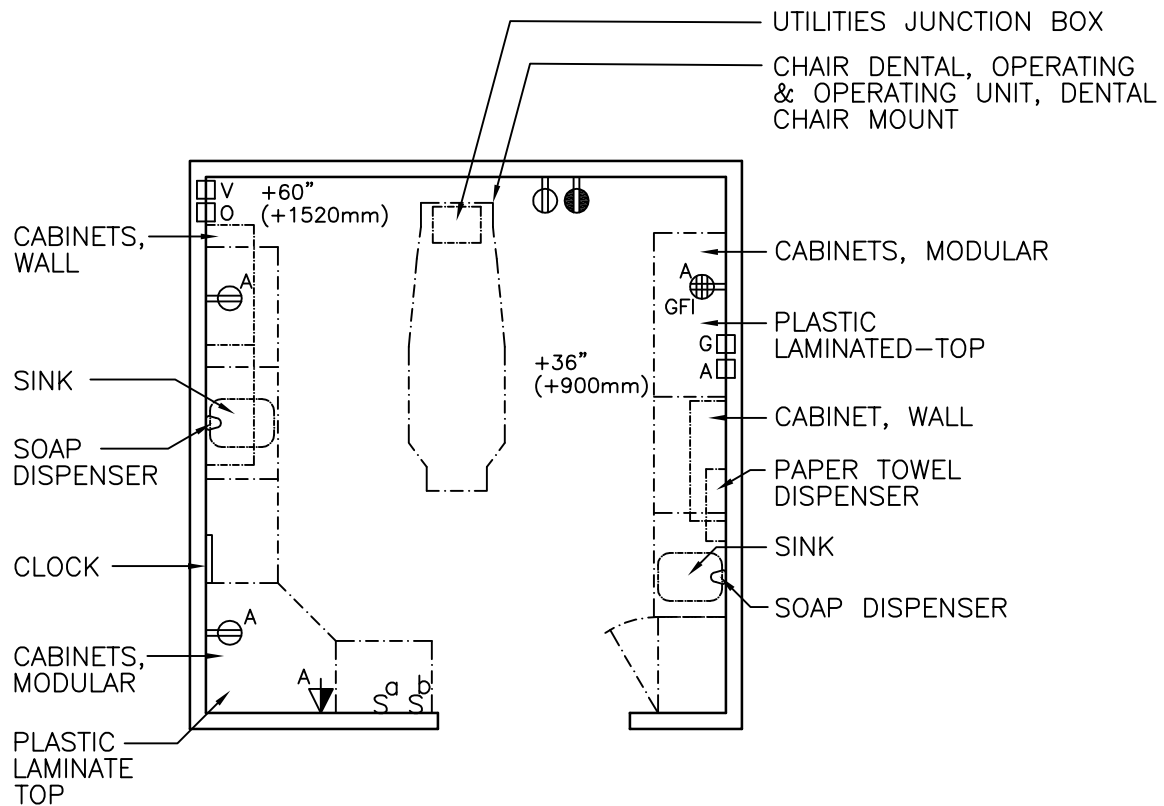
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5160	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5180		AR	CC	Curtain, cubicle
F3010 or F3025		1	CC	Bulletin board, 48" x 36" (1200 mm x 900 mm)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips
A5145		2	VV	Hook, coat, wall mounted
M1801		1	VV	Desktop PC with keyboard
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
F0340		1	VV	Stool, examining, adjustable
M4200		1	VV	Ophthalmoscope, wall hung
M4299		1	VV	Otoscope, wall hung
M4100		1	VV	Sphygmomanometer, wall hung
X3930		AR	VV	Illuminator, x-ray film, 120 volt, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M7401		AR	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
F0210		2	VV	Chair, straight, without arms
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Glove dispenser
A5106		1	VV	Sharps container, wall mounted



Dental: General Treatment Operator (DNTG1)

Floor Plan



120 NSF/ 11.2 NSM (Shown above)

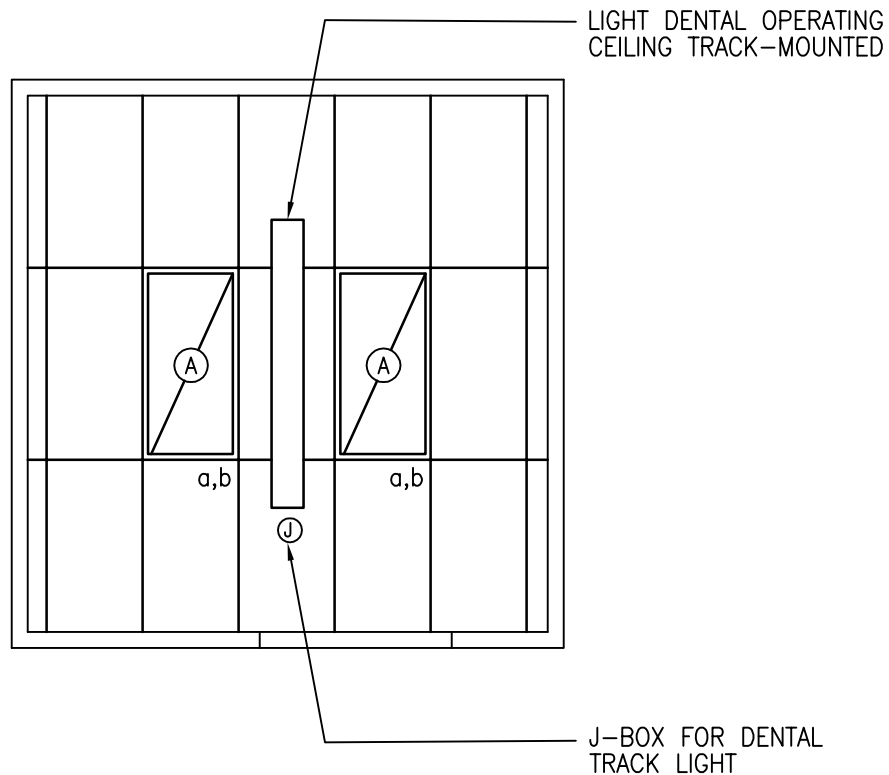
Combined Dental Hygiene Operator (DNTG1) 150 NSF / 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Dental: General Treatment Operator (DNTG1) Reflected Ceiling Plan



120 NSF/11.2 NSM (Shown above)
Combined Dental Hygiene Operator (DNTG1) 150NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Dental: General Treatment Operatory (DNTG1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

Dental Utility Junction Box

LIGHTING

General:	--
Special:	Ceiling Track Light
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps 5000°K, CRI=85 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Fixture description for alternate 150 NSF room is the same as described in Note 1 above. Orient two fixtures for 150 NSF room in the same manner as shown for the 120 NSF room. Increase fixture wattage for 150 NSF room by approximately 27% over wattage for 120 NSF room.

POWER

General:	As Shown
Emergency:	As Shown
Special:	--
Note:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	<ol style="list-style-type: none"> High volume oral evacuation dental air. Dental Compressed Air Natural Gas



Dental: General Treatment Operatory (DNTG1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
D7090		AR	CC	Utility outlets for chair mounted dental operating unit: water; waste; compressed air; high volume remote oral evacuation system and 120 volt, electrical; according to junction box template (piping for HVE according to specs) (PG-18-1, MCS 22 61 13.74, 22 62 19.74, 26 27 26; PG-18-10, Plumbing Design Manual)
		1	CC	Standard, mountings for ceiling track lights with separate electric junction box above ceiling track, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
A5075		2	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
		1	CC	Outlet, oxygen, wall mounted, left wall, 60" (1520 mm) above finished floor and 18" (450 mm) back from foot wall (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted, left wall, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 62 00)
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, right angle needle valve, natural gas, on right wall 36" (900 mm) above finished floor and 90" (2250 mm) from head wall (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, right angle needle valve, dental compressed air, on right wall, 36" (900 mm) above finished floor and 86" (2150 mm) from head wall (PG-18-1, MCS 22 61 13.74)
A1010		AR	CC	Outlet, telephone/data, provides intercom between suite rooms, wall mounted (PG-18-1, MCS 27 15 00)
		AR	VC	Utilities junction box template (according to dental operating unit manufacturer's design)
D6050		1	VC	Light, dental operating, ceiling track mounted (track to be mounted mid-way between right and left walls with headend of track separated, 96" (2400 mm) from foot wall)
D8250		1	VV	Operating unit, dental, chair mounted
		1	VV	Utilities junction box floor surface mounted (mid-line located 84" (2100 mm) to left of right wall and 12" (300 mm) back from foot wall) (see general notes)
D3320		1	VV	Chair, dental, operating, motor driven
D9960		AR	VV	Cabinet, wall, plastic laminate, sliding laminate doors for eye level storage (according to VHA design layout)
		AR	VV	Cabinets, modular with storage spaces, drawers, extended tops and sink with both foot and wrist blade controls (according to VHA design layout)



Dental: General Treatment Operatory (DNTG1) – Cont'd

Equipment List

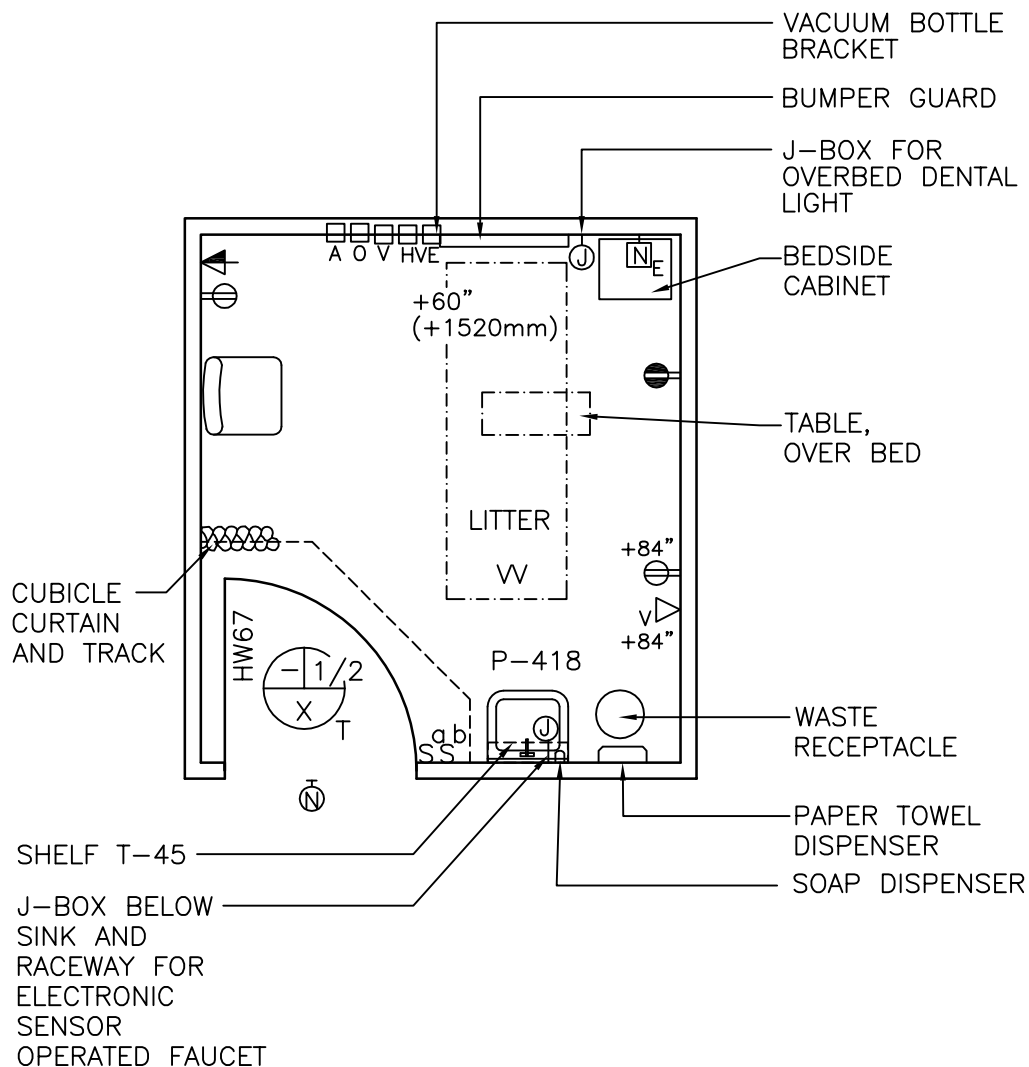
JSN	SYMBOL	QTY	AI	DESCRIPTION
D9941		AR	VV	Counter, plastic laminate, preformed with molded, 4" (100 mm) splash back and water fall front, over cabinets (see general notes)
A5080		1	VV	Dispenser, paper towel, surface mounted
M0755		1	VV	Flow meter, oxygen outlet, left wall, 60" (1520 mm) above finished floor and 18" (450 mm) back from foot wall
		1	VV	Collecting bottle and controls for vacuum outlet
F3200		1	VV	Clock, atomic, battery operated
				The following items are for optional selection by VHA when room is to be used for endodontics:
X6600		AR	VV	X-ray unit, Dental, 50-100 KVP, 120 volt (ceiling mounted)
		AR	VV	Mounting for ceiling mounted x-ray unit (according to x-ray manufacturer's installation specifications)
		1	VV	Shield, mobile, leaded, protective, for x-ray operator



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Dental: Oral Surgery Recovery Room (DNTR1)

Floor Plan



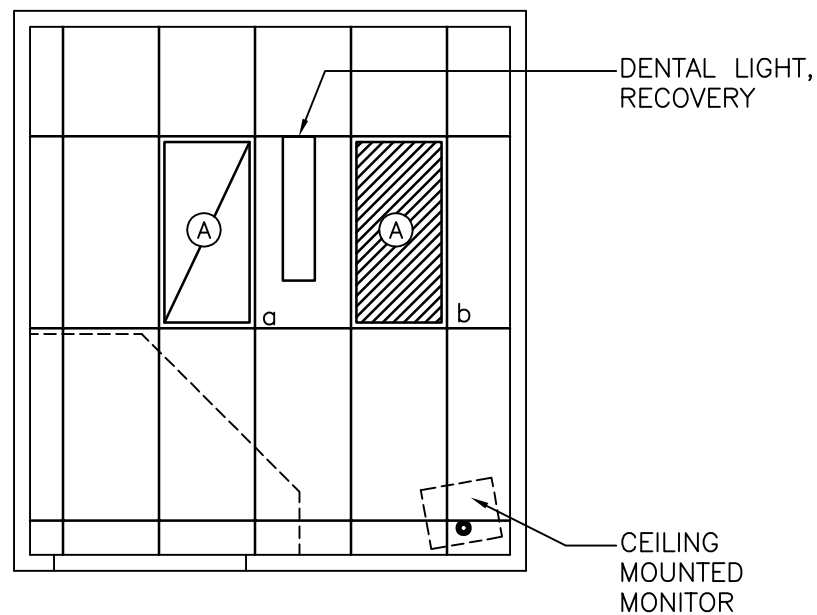
110 NSF/ 10.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Dental: Oral Surgery Recovery Room (DNTR1) Reflected Ceiling Plan



110 NSF/ 10.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Dental: Oral Surgery Recovery Room (DNTR1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P/GWB-W on gypsum wallboard
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

Ceiling Mounted Monitor

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 5000°K, CRI=85 (minimum). Lamps shall be deluxe color improved type. The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	8
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Dental: Oral Surgery Recovery Room (DNTR1)

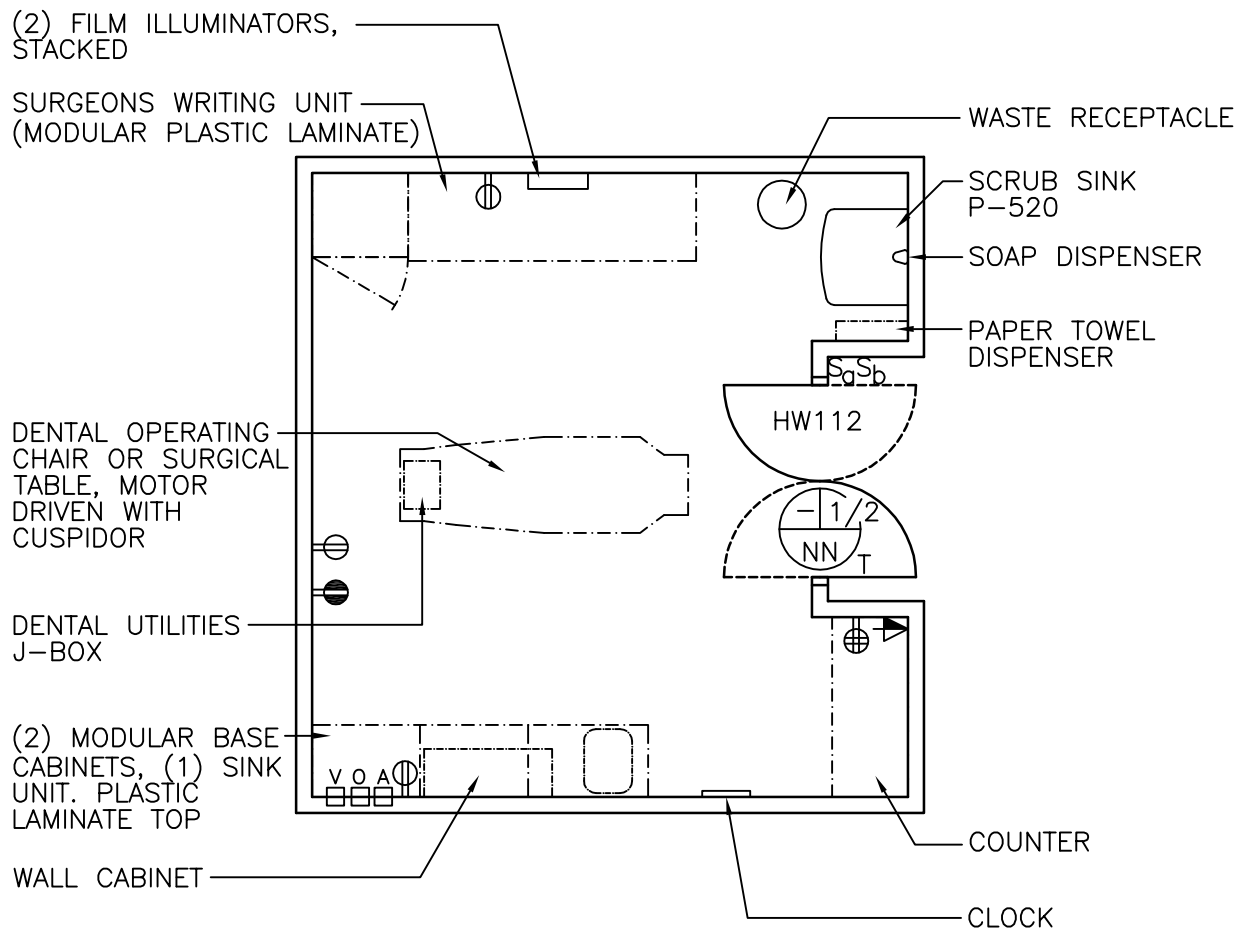
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Outlet, oxygen, wall mounted, 60" (1520 mm) above finished floor in mid-line of short wall farthest from door (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 62 00)
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, oxygen, wall mounted, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 63 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, wall, high volume remote oral evacuation system, 60" (1520 mm) above finished floor and adjacent to vacuum outlet (PG-18-1, MCS 22 62 19.74)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5165	T-45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
A6010		1	CC	Bumper guard, 2" D (50 mm D) deep, wall mounted off the floor behind head of bed (avoid return air grill) (PG-18-1, MCS 10 26 00)
		1	CC	Receptacle, electrical, ceiling mounted, 120 volt, for ceiling mounted monitor (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1 MCS 26 27 26)
		1	CC	Nurse, call station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
M7435		1	CC	Overbed, fully enclosed patient room light. Unit is designed to be wired directly to j-box in wall.
A1010		AR	CC	Outlet, telephone/data, provides intercom between suite rooms, wall mounted (PG-18-1, MCS 27 15 00)
M0750 & M0755		1	VV	Flow meter, oxygen outlet
F2017		1	VV	Receptacle, waste, approx. 12" (300 mm) diameter
		1	VV	Collecting bottle and controls for vacuum outlet
M4665		AR	VV	Hydraulic, adjustable height, mobile, combination surgical table-recovery type litter with removable side rails (litter width)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5180		AR	VV	Curtain, cubicle
F0210		AR	VV	Chair, straight, without arms
F0400		1	VV	Cabinet, bed side
M7845		1	VV	Monitor, ceiling mounted
M7040		1	VV	Table over bed, adjustable height, 33" W x 14" D (825 mm W x 350 mm D) on casters



Dental: Oral Surgery Room (DNTS1)

Floor Plan



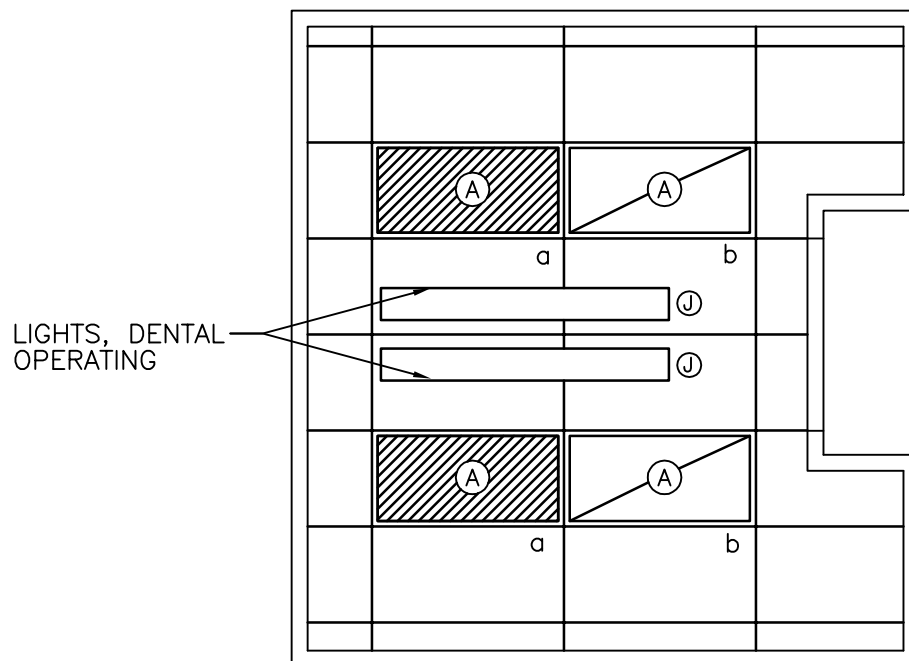
150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Dental: Oral Surgery Room (DNTS1) Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Dental: Oral Surgery Room (DNTS1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	--
Wainscot:	--
Base:	WSF, 6" integral cove
Floor Finish:	SV
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	Dental Utility Junction Box
Notes:	1) Coordinate location and size of junction box with dental operating chair.

LIGHTING

General:	--
Special:	Two (2) ceiling mounted Dental operating lights.
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic, prismatic lens, w/ F32T8 lamps, 5000°K (minimum), CRI=85 (minimum).
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	8
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	1) High volume oral evacuation, dental air.



Dental: Oral Surgery Room (DNTS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Note: Install double doors, 24" (600 mm) wide each, self closing, double acting, plastic laminate surface with restricted eye level glass panels, 16" x 16" (400 mm x 400 mm), 90 degree hold open capability in either direction (substitute steel doors)
P6980	P-520	1	CC	Sink, surgeons, scrub-up, sensor control (PG-18-1, MCS 22 40 00)
		AR	CC	Dispenser, soap, with foot control, wall mounted over sink (PG-18-1, MCS 10 28 00)
		2	CC	Standard, mounting for ceiling track lights with separate electric junction box above ceiling track, 120 volt (PG-18-1, MCS 26 27 26)
X3930		2	CC	Illuminator, film x-ray, recessed, 120 volt, 14" x 17" (350 mm x 425 mm) (PG-18-1, MCS 26 51 00)
				Note: Provide 2 x-ray film illuminators installed one above the other in right wall, standing height and seated height over 32" (800 mm) height desk unit, center approx. 80" (2000 mm) from head wall.
		1	CC	Outlet, oxygen, wall mounted, left wall, 60" (1520 mm) above finished floor and 13" (325 mm) from foot wall (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted, left wall, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 62 00)
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, wall, dental compressed air, left wall, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 13 17 23)
		1	CC	Utility outlets for oral surgery chair; water; waste; compressed air; high volume remote oral evacuation system and 120 volt, electrical; according to junction box template (PG-18-1, MCS 22 61 13.74, 22 62 19.74, 26 27 26; PG-18-10, Plumbing Design Manual)
A1010		AR	CC	Outlet, telephone/data, provides intercom between dental suite rooms, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
D6050		2	VC	Lights, dental operating, single ceiling track mounted (to be installed parallel to each other and separated, 12" to 18" (300 mm to 450 mm) apart on both sides of mid-line of room and with headend of tracks, 96" (2400 mm) back from foot wall)
		1	VC	Utilities junction box template (according to dental operating unit manufacturer's design)
E0210		AR	VV	Cabinets, modular with storage spaces, drawers, extended tops and sink with both foot and wrist blade controls



Dental: Oral Surgery Room (DNTS1) – Cont'd

Equipment List

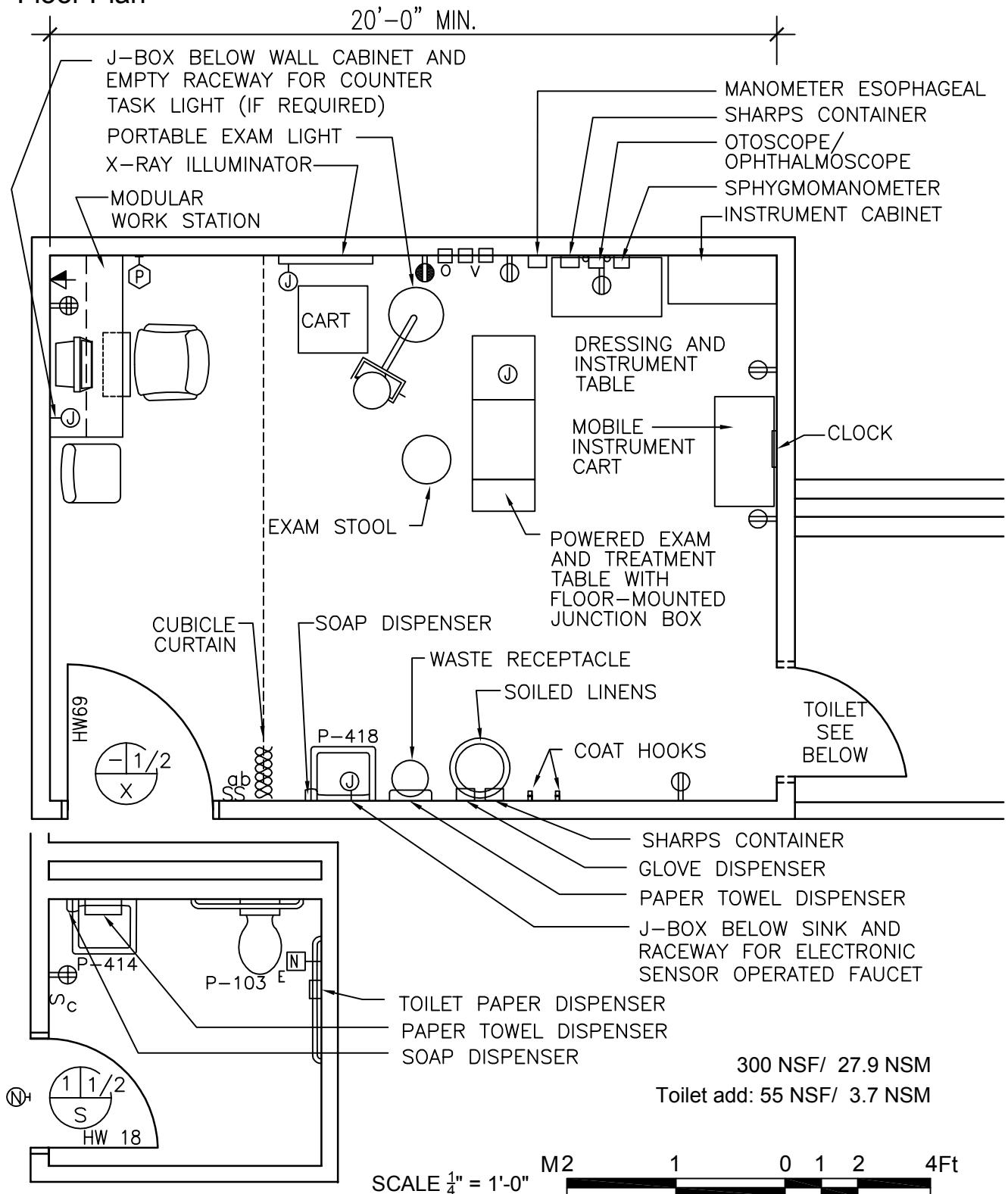
JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	VV	Counter, plastic laminate, preformed with molded, 4" (100 mm) splash back and water fall front, over cabinets
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type approx. 12" (300 mm) diameter
M0750 or M0755		1	VV	Flow meter, oxygen
		1	VV	Collecting bottle and controls for vacuum outlet
		1	VV	Utilities junction box, floor surface mounted (mid-line located, 96" (2400 mm) to left of right wall and 12" (300 mm) back from foot wall) (see Note in Special Equipment Designs Standards section)
D3320		1	VV	Chair, dental, operating or surgical chair-table, motor driven
F3200		1	VV	Clock, atomic, battery operated



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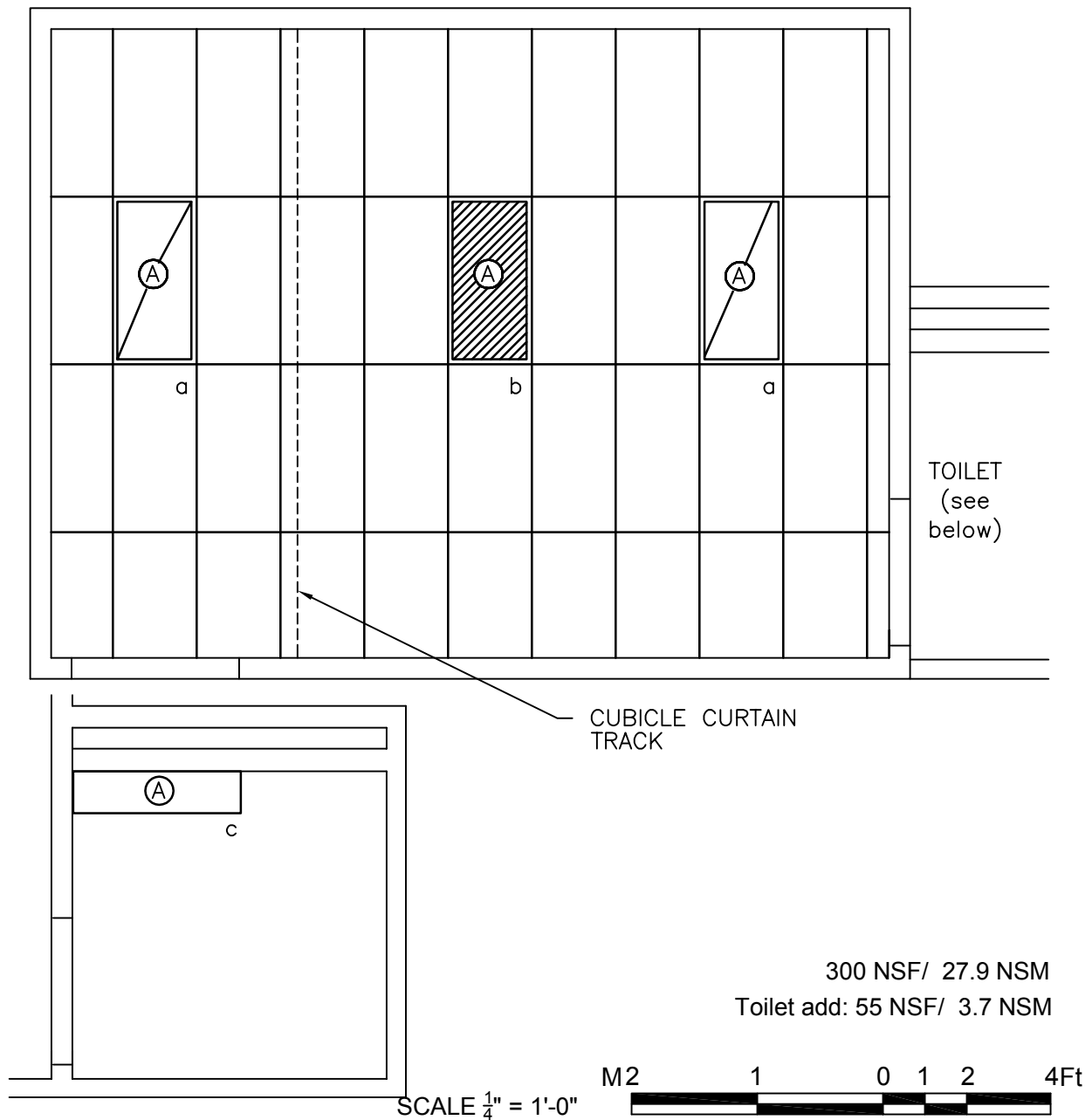
Endoscopy: EGD Procedure Room (TREE1)

Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Endoscopy: EGD Procedure Room (TREE1) Reflected Ceiling Plan



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Endoscopy: EGD Procedure Room (TREE1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	CT 48" (1200 mm) in Toilet Room
Base:	RSF 6" (150 mm) integral cove CT in Toilet Room
Floor Finish:	RSF CT in Toilet Room
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Medic cart; x-ray illuminator, exam and treatment table shall be on emergency power. Provide dedicated receptacle circuit for exam table. Coordinate location and height of work station receptacles with modular furniture. Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	8
100% Exhaust:	Yes, from Procedure Room and Toilet
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



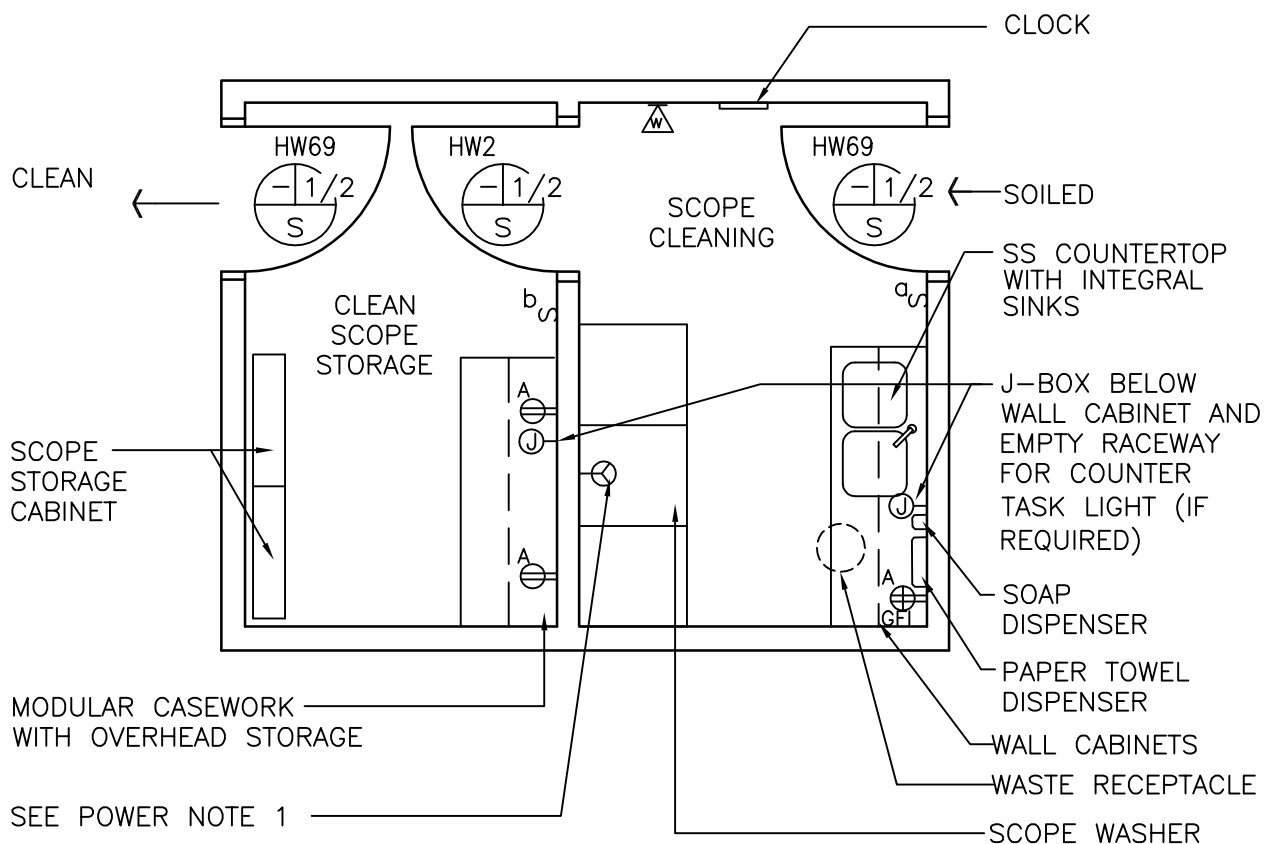
Endoscopy: EGD Procedure Room (TREE1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1; MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1; MCS 26 27 26)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
P9150	P-103	1	CC	Water closet, wall hung (PG-18-1, MCS 22 40 00)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A5200		1	CC	Dispenser, toilet tissue, double roll (PG-18-1, MCS 10 28 00)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
E0957		1	VV	Cart, medication, with IV pole
M8830		AR	VV	Cart, mobile, instrument, 36" x 20" (900 mm x 500 mm)
F0205		1	VV	Chair, rotary, with arms
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system, with keyboard
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		2	VV	Dispenser, paper towel, surface mounted
A5075		2	VV	Dispenser, soap, liquid, wall mounted
M3070		AR	VV	Hamper, soiled linen, with hinged self closing top 20" (500 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		AR	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
		1	VV	Manometer, esophageal, with recorder
M4200		1	VV	Ophthalmoscope, wall hung
M4200		1	VV	Otoscope, wall hung
F2017		1	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter
M4100		1	VV	Sphygmomanometer, wall hung
F0340		1	VV	Stool, examining, adjustable
M8820		1	VV	Table, instrument, dressing, corrosion resisting steel, 20" W x 36" L x 35" H (500 mm W x 900 mm L x 875 mm H)
M9066		1	VV	Table, examining and treatment, motorized
A5106		1	VV	Sharps container
A5106		1	VV	Glove dispenser
A5180		1	VV	Curtain, cubicle



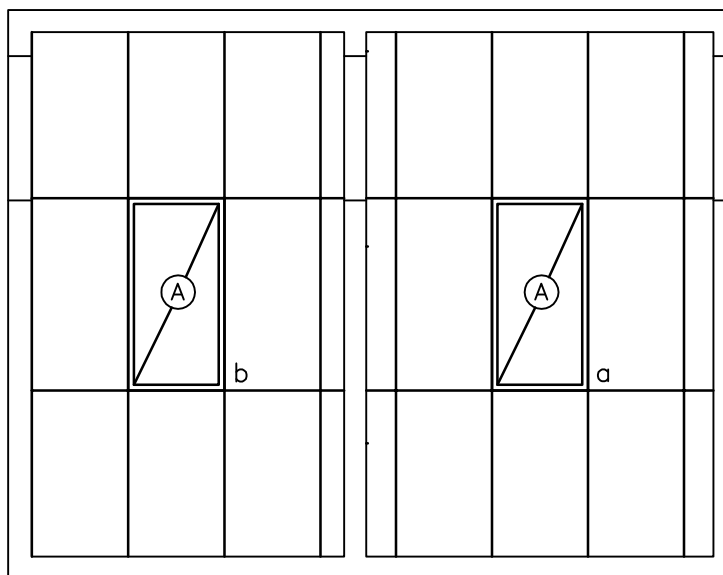
Endoscopy: Scope Cleaning/ Clean Storage (USCL2) Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Endoscopy: Scope Cleaning/ Clean Storage (USCL2)

Reflected Ceiling Plan



150 NSF/ 14 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Endoscopy: Scope Cleaning/Clean Storage (USCL2)

Design Standards

ARCHITECTURAL

Ceiling: AT (SP)
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: GWB (SC)
 Wainscot: --
 Base: RSF 6" (150 mm) Integral Cove
 Floor Finish: RSF
 Slab Depression: --
 Sound Protection: --
 Notes: --

SPECIAL EQUIPMENT**LIGHTING**

General: --
 Special: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens w/ T8 lamps, 3500°K, CRI=70 (minimum).
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General: As Shown
 Emergency: As Shown
 Notes: 1) Special wiring device for scope washer. Coordinate with manufacturer.

COMMUNICATION/SPECIAL SYSTEMS

Data: --
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: --

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
 30 Percent to 50 Percent Relative Humidity
 Minimum Air Changes per Hour: 6 (Each Space)
 100% Exhaust: Yes
 100% Outside Air: No
 Room Air Balance: Negative (-) Scope Cleaning
 Positive (+) Clean Storage
 Dedicated Exhaust System: No
 Occupancy: 2
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: --

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: Yes
 Reagent grade Water: --
 Medical Air: --
 Medical Vacuum: --
 Oxygen: --
 Notes: --



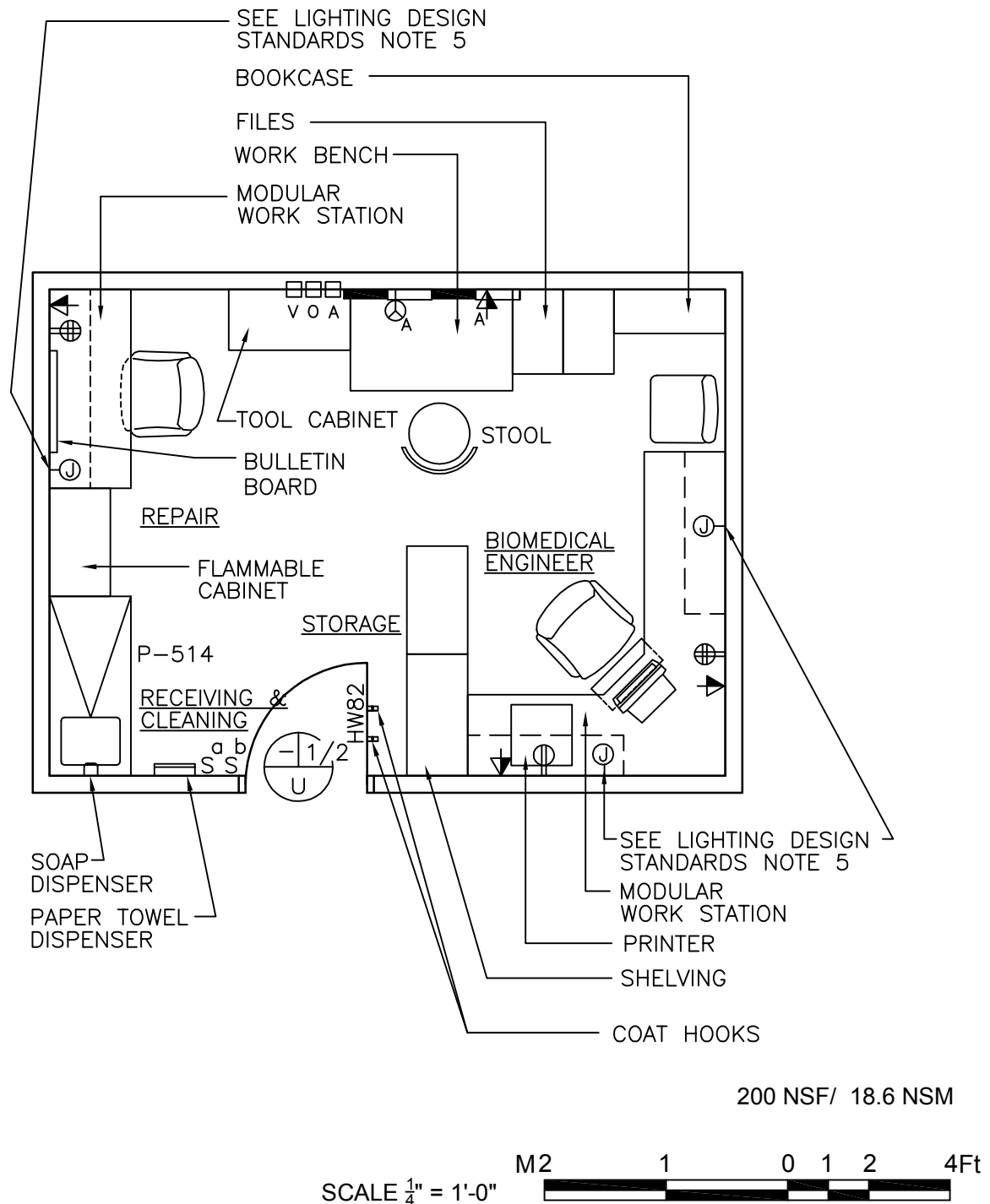
Endoscopy: Scope Cleaning/Clean Storage (USCL2)

Equipment List

SCOPE CLEANING				
JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 and 12 36 00)
CS230		1	CC	Sink, double bowl, self rimming, CRS (PG-18-1, MCS 12 36 00)
		1	CC	Power supply receptacle, scope washer (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle waste, step on type, approx. 12" (300 mm) diameter
S2627		AR	VV	Washer, scope
CLEAN STORAGE				
JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Modular casework with overhead storage and wall hanger strips (PG-18-1, MCS 12 34 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
E0918		AR	VV	Cabinet, scope storage



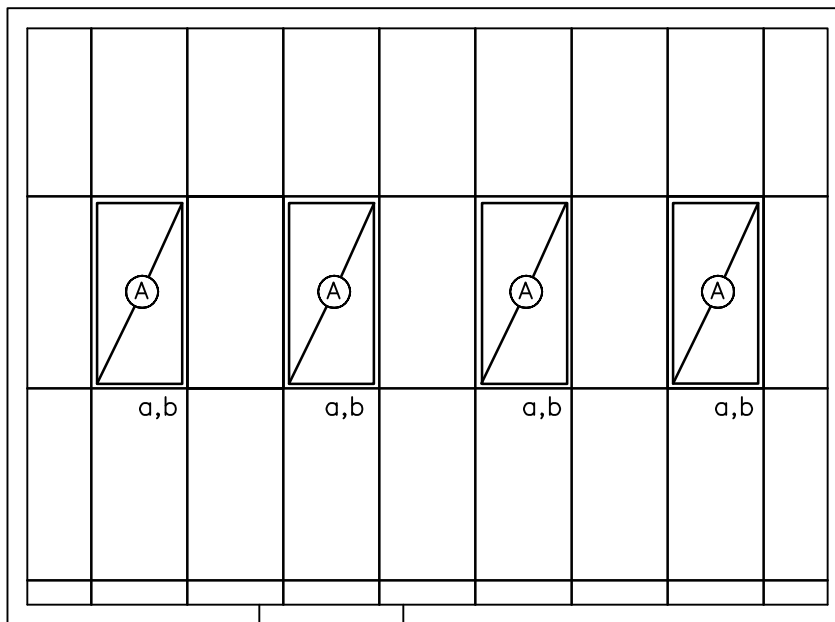
Engineering: Biomedical Engineering Repair Shop (BMER1) Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Engineering: Biomedical Engineering Repair Shop (BMER1)

Reflected Ceiling Plan



200 NSF/ 18.6 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Engineering: Biomedical Engineering Repair Shop (BMER1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB lay-in ceiling panels in grid
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Bench:	--
Notes:	<ol style="list-style-type: none"> 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 5) J-box below wall cabinet and empty raceway for counter task light (if required).

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> 1) Provide hood with exhaust where repair work involves use of Mercury, Xylene and other toxic chemicals. 2) Provide flammable cabinet exhaust system where required under OSHA Standards.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air (Oil free utility air):	Yes
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	<ol style="list-style-type: none"> 1) Provide all gases that are in the facility



Engineering: Biomedical Engineering Repair Shop (BMER1)

Equipment List

BIOMEDICAL ENGINEER				
JSN	SYMBOL	QTY	AI	DESCRIPTION
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
F0210		1	VV	Chair, straight, without arms
F0205		1	VV	Chair, rotary, with arms
F0405		AR	VV	Cabinet, filing, 5 drawer, approx. 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5145		2	VV	Hook, coat
M1801 & M1825		1	VV	Computer and printer

RECEIVING & CLEANING				
JSN	SYMBOL	QTY	AI	DESCRIPTION
	P-514	1	CC	Sink, corrosion resisting steel, single compartment with drainboard, wall hung, elbow controls (PG-18-1, MCS 22 40 00)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted

REPAIR				
JSN	SYMBOL	QTY	AI	DESCRIPTION
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, 208 volt, 1 phase (PG-18-1, MCS 26 27 26)
		AR	CC	Electrical, surface mounted, multi-outlet, raceway assembly, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		1	VV	Chair, rotary with arms
F3010 or F3025		1	VV	Bulletin board, approx. 36" x 36" (900 mm x 900 mm)
		1	VV	Workbench, wood top, 48" (1200 mm) x length as required x 30" (750 mm)
		1	VV	Stool with back adjustable height, without arms



Engineering: Biomedical Engineering Repair Shop (BMER1) – Cont'd

Equipment List

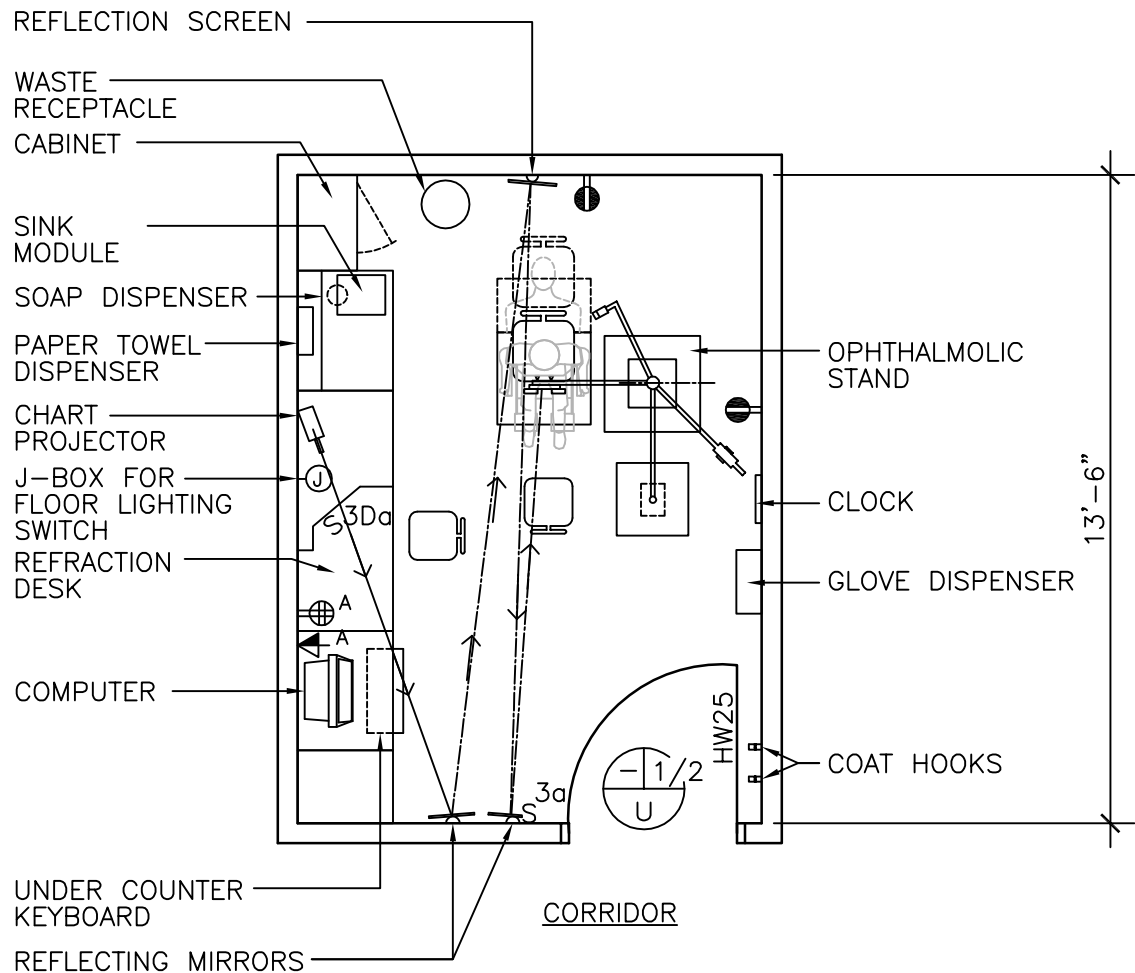
STORAGE				
JSN	SYMBOL	QTY	AI	DESCRIPTION
M2055		AR	CC	Shelving, floor standing, steel, with adjustable shelves, 36" W x 18" D x 84" H (900 mm W x 450 mm D x 2100 mm H) (PG-18-1, MCS 12 31 00)
		AR	VV	Cabinet, safety storage, flammable liquids, approx. 32" x 32" (800 mm x 800 mm)
		AR	VV	Cabinet, tool storage, heavy duty, 4 shelves, 2 doors with lock, 36" x 18" x 84" (900 mm x 450 mm x 2100 mm)
F0120		AR	VV	Bookshelving, storage
F0405		AR	VV	Cabinet, filing, 5 drawer, approx. 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)



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Eye Clinic: Eye Examination/Treatment Room (TREY1)

Floor Plan



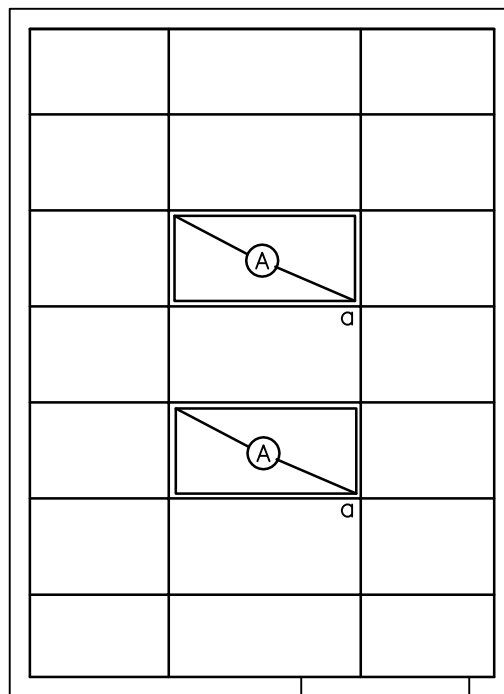
130 NSF/ 12 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Eye Clinic: Eye Examination/Treatment Room (TREY1) Reflected Ceiling Plan



130 NSF/ 12 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Eye Clinic: Eye Examination/Treatment Room (TREY1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB lay-in ceiling panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) General illumination dimmer controls include 3-way dimmer switch in refraction desk and 4-way dimmer foot switch on cord. 2) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 3) The foot-candle level is average maintained. 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



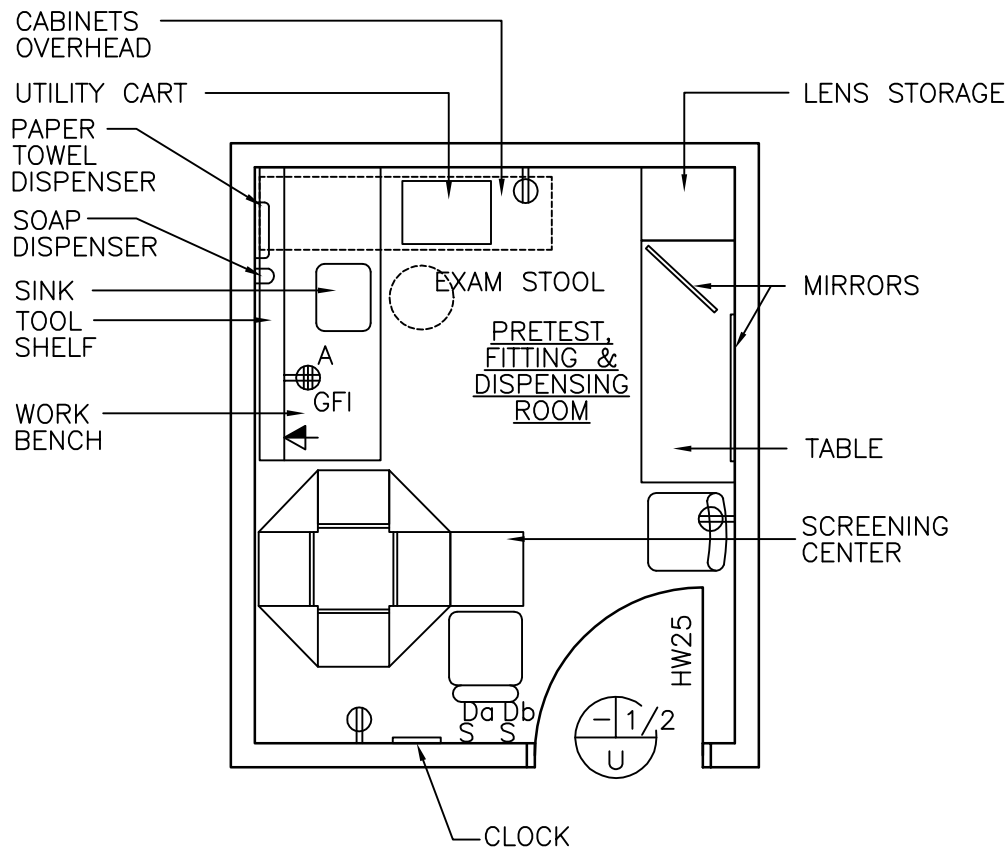
Eye Clinic: Eye Examination/Treatment Room (TREY1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Switch, dimmer control (Electrical and Telecommunication's Design Manual) Note: Provide dual point control for lights with dimmer switch on refraction desk and portable floor dimmer switch.
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
M5600		1	VV	Chair/table, patient, exam, fully powered, height adjusted with phoropter stand
M5730, M5600, M5530, M5545, M5520, M5535		1	VV	Stand, ophthalmic instrument stand with swinging and pivoting arms continuing: * Phoropter * Slit lamp * Keratometer * Lamp-top of ophthalmic column
M5016		1	VV	Desk, refraction, with retractable lens drawer and controls and dimmer controls, power wells contains ophthalmoscope, retinoscope and transilluminator. Desk is pre-manufactured.
M5560		1	VV	Chart, projector - top of the desk
		1	VV	Sink, module Note: May be included in M5016.
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
A5106		1	VV	Glove dispenser, wall mounted
CE040		1	VV	Cabinet, sloping top, glazed doors, 18" x 15" x 82" (450 mm x 380 mm x 1800 mm)
A5145		AR	VV	Hook, coat, wall mounted
M5710		AR	VV	Mirror, set - 2, reflecting, adjustable (special optometrist)
M5720		AR	VV	Screen, reflecting, adjustable (special optometrist)
M1802		1	VV	Table, computer equipment, 24" x 48" (600 mm x 1200 mm)
M1801		1	VV	PC, computer system, with keyboard
F0340		AR	VV	Chair, operator's without arms, swivel and adjustable heights
F3200		1	VV	Clock, atomic, battery operated
F2017		1	VV	Receptacle, waste, 12" (300 mm) diameter



Eye Clinic: Fitting & Dispensing Room (EYFD1) Floor Plan

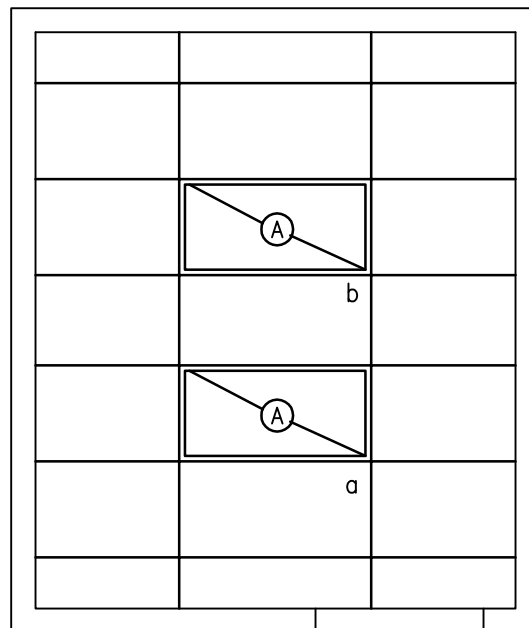


120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

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Eye Clinic: Fitting & Dispensing Room (EYFD1) Reflected Ceiling Plan



120 NSF/ 11.2 NSM



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Eye Clinic: Fitting & Dispensing Room (EYFD1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB lay-in ceiling panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens on top and bottom, w/ F32T8 lamps, 3500° K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



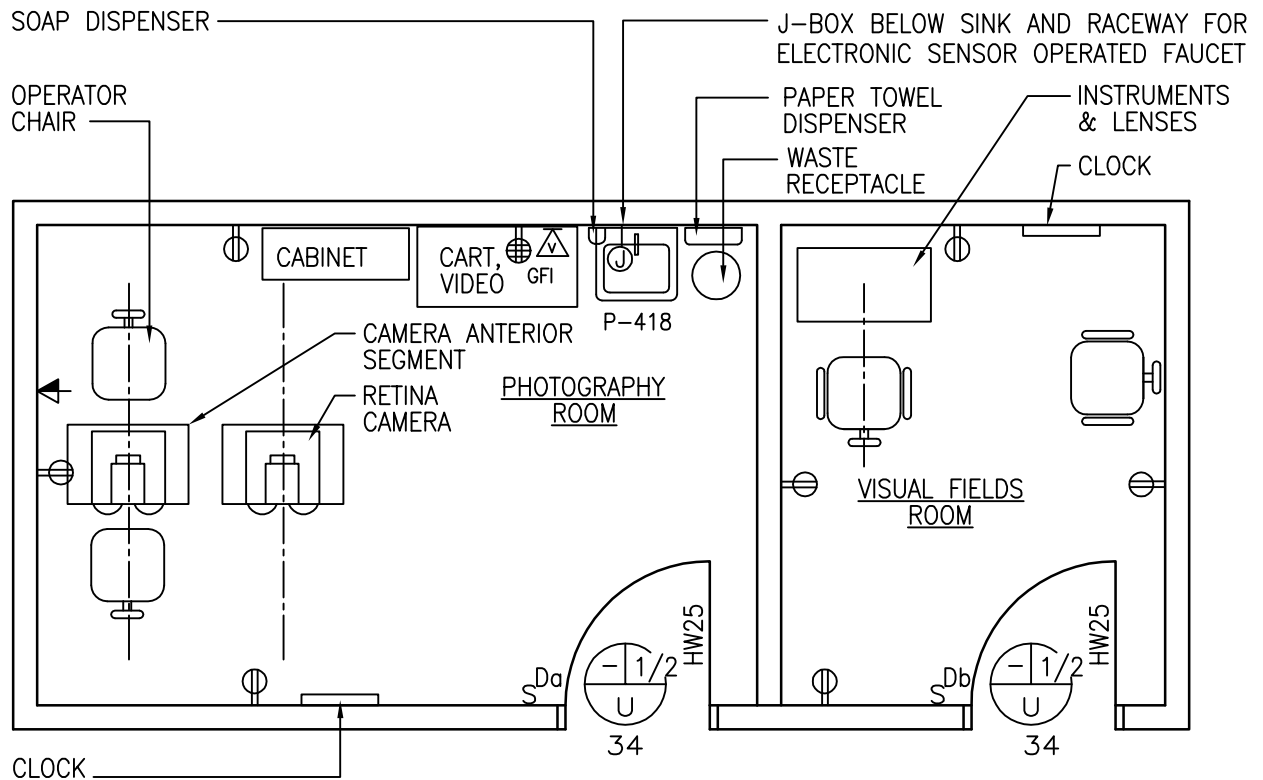
Eye Clinic: Fitting & Dispensing Room (EYFD1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A5025		1	CC	Bench, repair, 30" W x 96" L with 6" W (750 mm W x 2400 mm L with 150 mm W) tool shelf above, 6" (150 mm) deep drawers under and knee space (PG-18-1, MCS 12 31 00)
CS090		1	CC	Sink, stainless steel, built into counter, 18" x 14" x 8" (450 mm x 350 mm x 200 mm) (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
M5016		1	VV	Screening center with table incorporating following instruments: <ul style="list-style-type: none"> • Auto refractor • Auto lensometer • Auto tonometer • Auto biometry and keratometer Note: This item may include an optional equipment stand/pole with one to three arms and the ability to accept a phoropter arm.
F0210		1	VV	Chair, patient, without arms
		1	VV	Display, glasses-frame, approx. 48" (1200 mm) long
M5010		1	VV	Table, knee space under, 60" x 24" (1520 mm x 600 mm)
A1066		AR	VV	Mirror
		1	VV	Cabinet, storage for contact lenses, 18" x 24" x 72" (450 mm x 600 mm x 1800 mm)
F0340		1	VV	Stool, operator's, swivel and adjustable heights
		2	VV	Cabinet, wall mounted, 30" (750 mm) wide
F0535		1	VV	Cart, utility, corrosion resisting steel, 36" x 18" x 30" (900 mm x 450 mm x 750 mm)
F3200		1	VV	Clock, atomic, battery operated
A5075		1	VV	Dispenser, soap, wall mounted
A5080		1	VV	Dispenser, paper towel, wall mounted



Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1) Floor Plan



Photography Room 150 NSF/ 14 NSM

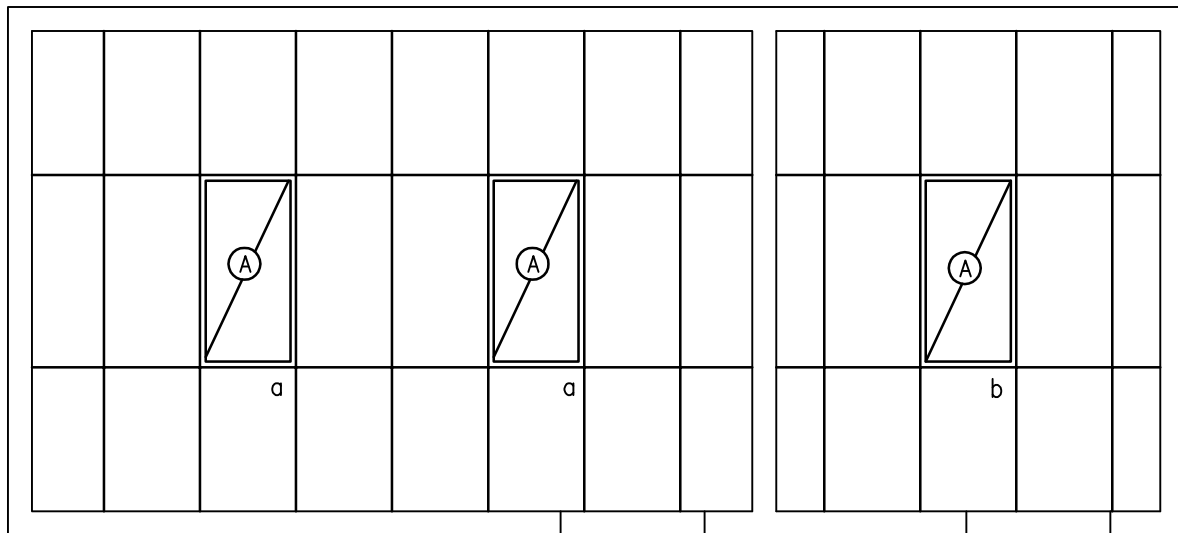
Visual Fields Room 80 NSF/ 7.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1) Reflected Ceiling Plan



Photography Room 150 NSF/ 14 NSM

Visual Fields Room 80 NSF/ 7.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB lay-in ceiling panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 2' X 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens on top and bottom, w/ F32T8 lamps, 3500° K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2 (Each)
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1) Equipment List

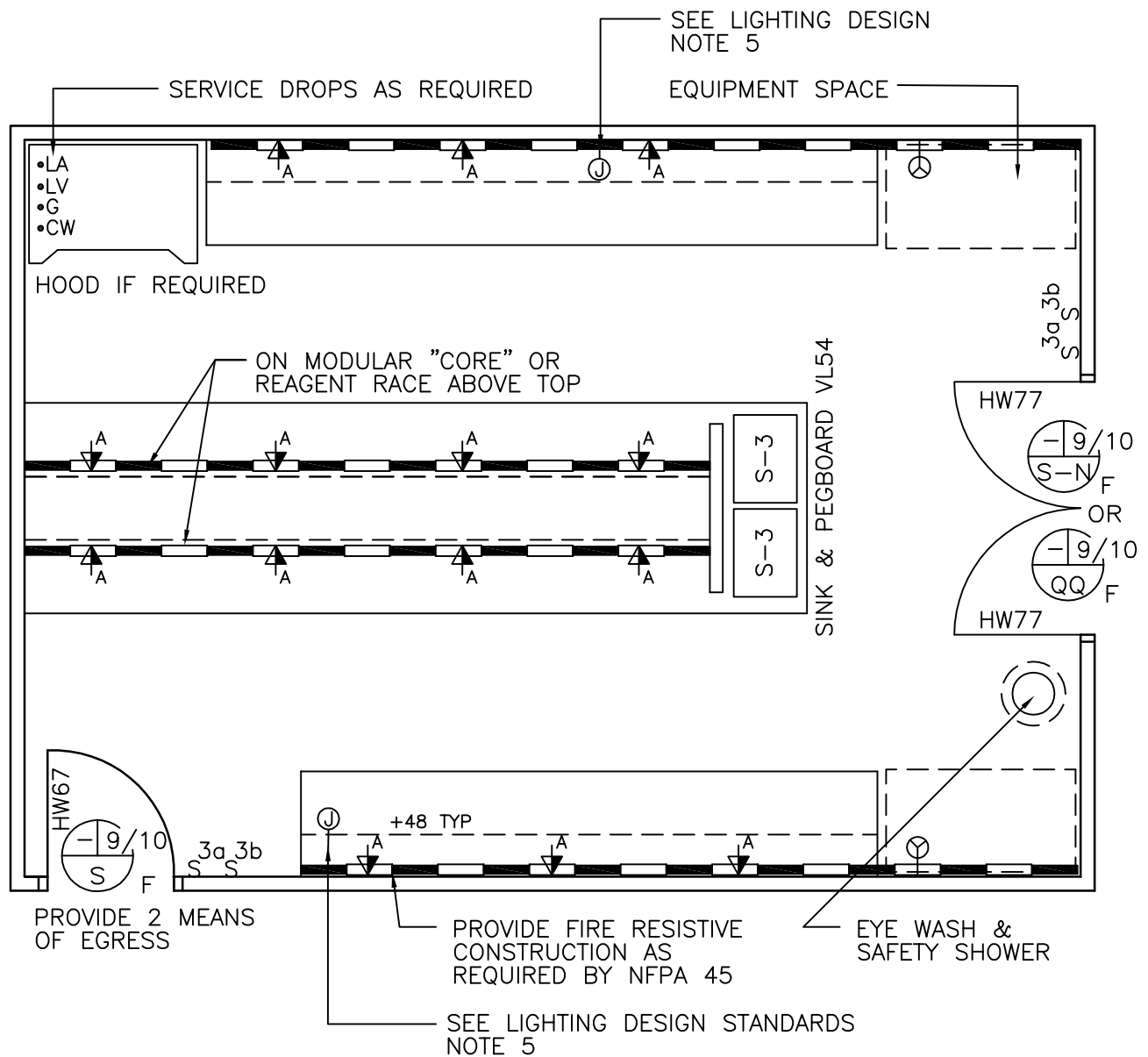
VISUAL FIELDS ROOM(S)				
JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	VV	Visual fields instrument(s)
M5700		1	VV	Lens set, trial, ophthalmic
		2	VV	Chair, with back support, adjustable heights, swivel and wheel brakes
F3200		1	VV	Clock, atomic, battery operated

PHOTOGRAPHY ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1; MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
M6050		1	VV	Camera retinal
		1	VV	Camera, anterior segment
		1	VV	Camera, hand held for external photos
M5030		2	VV	Chair, without arms, swivel and adjustable heights
CE040		1	VV	Cabinet, sloping top and glazed doors, 36" x 15" x 72" (900 mm x 380 mm x 1800 mm)
U1066		1	VV	Cart, video, 40" x 20" (1000 mm x 500 mm)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
F3200		1	VV	Clock, atomic, battery operated



Laboratory: Clinical Chemistry (LMCH3)

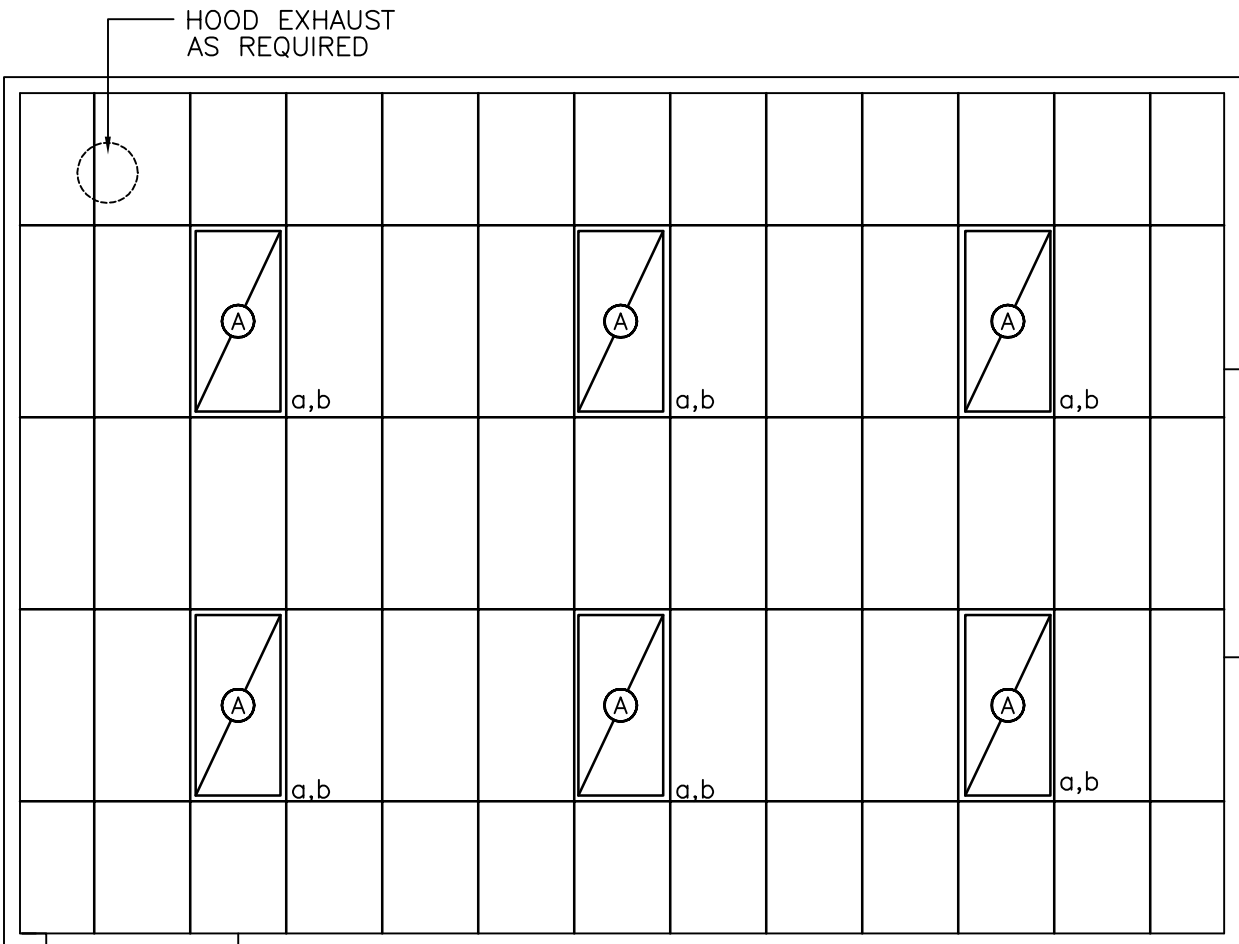
Floor Plan



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Laboratory: Clinical Chemistry (LMCH3)

Reflected Ceiling Plan



400 NSF/ 37.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

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Laboratory: Clinical Chemistry (LMCH3)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Task:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. Task lighting under wall cabinets (if required).

POWER

General:	As Shown
Special:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> Install surface metal raceway 12" above laboratory benches. Provide receptacles every 24" and provide alternate circuiting. Verify special receptacle requirements with equipment manufacturer.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	Yes
100% Outside Air:	Only if the AHU is 100% OA
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	For Hoods, if included in the program
Occupancy:	5
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	Yes
Laboratory Vacuum:	Yes
Sanitary Drain:	Yes
Reagent Grade Water:	Yes
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	<ol style="list-style-type: none"> Chemical Resistant Drain, Fuel Gas



Laboratory: Clinical Chemistry (LMCH3)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
				Note: VL (fixed) casework is shown, however, modular casework may also be selected.
				Note: Lab equipment to be determined by the clinical lab service of the referral-medical center for each project.
		AR	CC	Connections, mechanical, electrical and plumbing as required
CT060	13B	AR	CC	Counter top, epoxy resin, w/drip groove 1" (25 mm) thick, 30" (750 mm) deep along wall (5' @ islands (1520 mm W)) (PG-18-1, PG-18-6, MCS 12 36 00)
CS270	S-3	AR	CC	Sink, molded, resin with end or corner drain, 25" L x 18" W x 16" D (635 mm L x 450 mm W x 400 mm D) (PG-18-1, PG-18-6, MCS 12 36 00)
	VL1	AR	CC	Cabinet, under counter, with dust seal drawers, 30" W (750 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
	VL3	AR	CC	Cabinet, under counter, with dust seal drawers, 24" W (600 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
	VL4	AR	CC	Cabinet, under counter, with 2 dust seal drawers, 2 doors and 1 adjustable shelf, 48" W (1200 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
C02C0	VL8	AR	CC	Cabinet, under counter, with 1 drawer and 1 adjustable shelf, 24" W (600 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
E0721	VL14	AR	CC	Table frame with drawers, knee space unit, widths are, 30" D (750 mm D), 25" H (635 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
C04P0	VL-20	AR	CC	Cabinet, under counter, sink unit, 2 hinged panel door 36" W (900 mm W), 22" D (550 mm D), 25" H (625 mm H); add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
CA020	VL-24	AR	CC	Cabinet, wall, 2 adjustable shelves, sloping top, 24" W x 12" D x 30" H (600 mm W x 300 mm D x 750 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
CE040	VL-25	AR	CC	Cabinet, wall, 2 adjacent shelves, sloping top, 2 glazed sliding doors, 36" W x 12" D x 30" H (900 mm W x 300 mm D x 750 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
P5210		1	CC	Eye wash and safety shower
C0052	VL-54	AR	CC	Pegboard, epoxy, 53 pegs, 32" W x 30" H (800 mm W x 750 mm H) (PG-18-1, PG-18-6, MCS 12 36 00)
		AR	CC	Outlets, lab air, fuel gas and lab vacuum grouped over counter (PG-18-1, PG-18-6, MCS 12 36 00)
		AR	CC	Faucet, reagent grade or mineral free water (PG-18-1, MCS 12 36 00)



Laboratory: Clinical Chemistry (LMCH3) – Cont'd

Equipment List

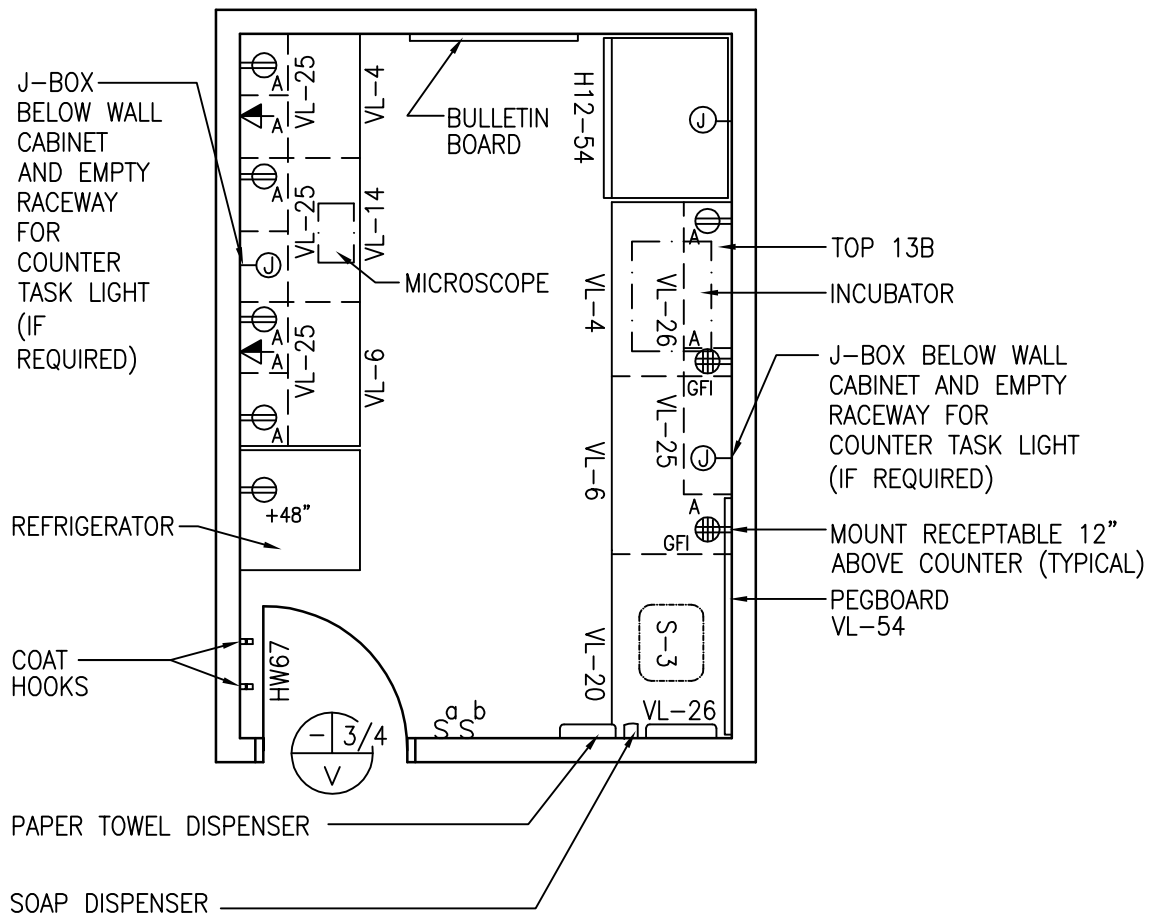
JSN	SYMBOL	QTY	AI	DESCRIPTION
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Special receptacle, electrical, on wall, coordinate voltage with equipment manufacturer (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt, strip mold with outlets 24" (600 mm) o.c., 9" (225 mm) above counter (PG-18-1, MCS 26 27 26)



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Laboratory: Microbiology (LMM03)

Floor Plan



150 NSF/ 13.9 NSM

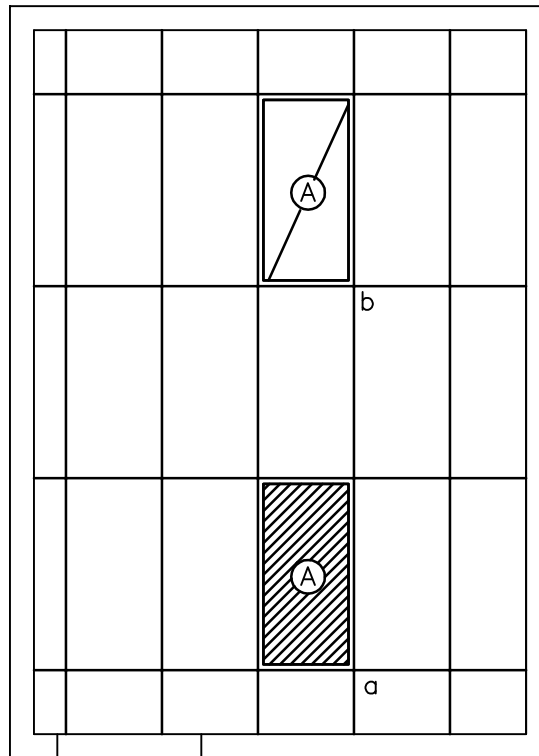
SCALE $\frac{1}{4}" = 1'-0"$



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Laboratory: Microbiology (LMM03)

Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Laboratory: Microbiology (LMM03)

Design Standards

ARCHITECTURAL

Ceiling: GWB, lay-in panels in grid
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: GWB-P
 Wainscot: --
 Base: RB
 Floor Finish: VCT
 Slab Depression: --
 Notes: --

SPECIAL EQUIPMENT

--

LIGHTING

General: --
 Special: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm)
 recessed fluorescent light fixture,
 acrylic prismatic lens, w/ three
 F32T8 lamps, 3500°K, CRI=70.
 2) The foot-candle level is average
 maintained.
 3) Provide ballasts per fixture for
 desired switching configuration.
 To provide a uniform lighting level,
 switch inner lamp(s) on first switch
 and outer lamps on second switch.
 4) Exact quantity, location, and
 lamping of light fixtures shall be
 chosen to meet the foot-candle
 requirement.

POWER

General: As Shown
 Emergency: As Shown
 Notes: --

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: --

**HEATING, VENTILATING AND AIR
CONDITIONING**

Inside Design Conditions: 70°F (21°C) to
 75°F (24°C) Dry-Bulb
 Temperature
 30 Percent to
 50 Percent
 Relative Humidity
 Minimum Air Changes per Hour: 6
 100% Exhaust: Yes
 100% Outside Air: No
 Room Air Balance: Negative (-)
 Dedicated Exhaust System: No
 Occupancy: 3
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: --

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: Yes
 Laboratory Vacuum: Yes
 Sanitary Drain: Yes
 Reagent Grade Water: Yes
 Medical Air: --
 Medical Vacuum: --
 Oxygen: --
 Notes: 1) Chemical Resistant Drain, Fuel
 Gas, Biological cabinet



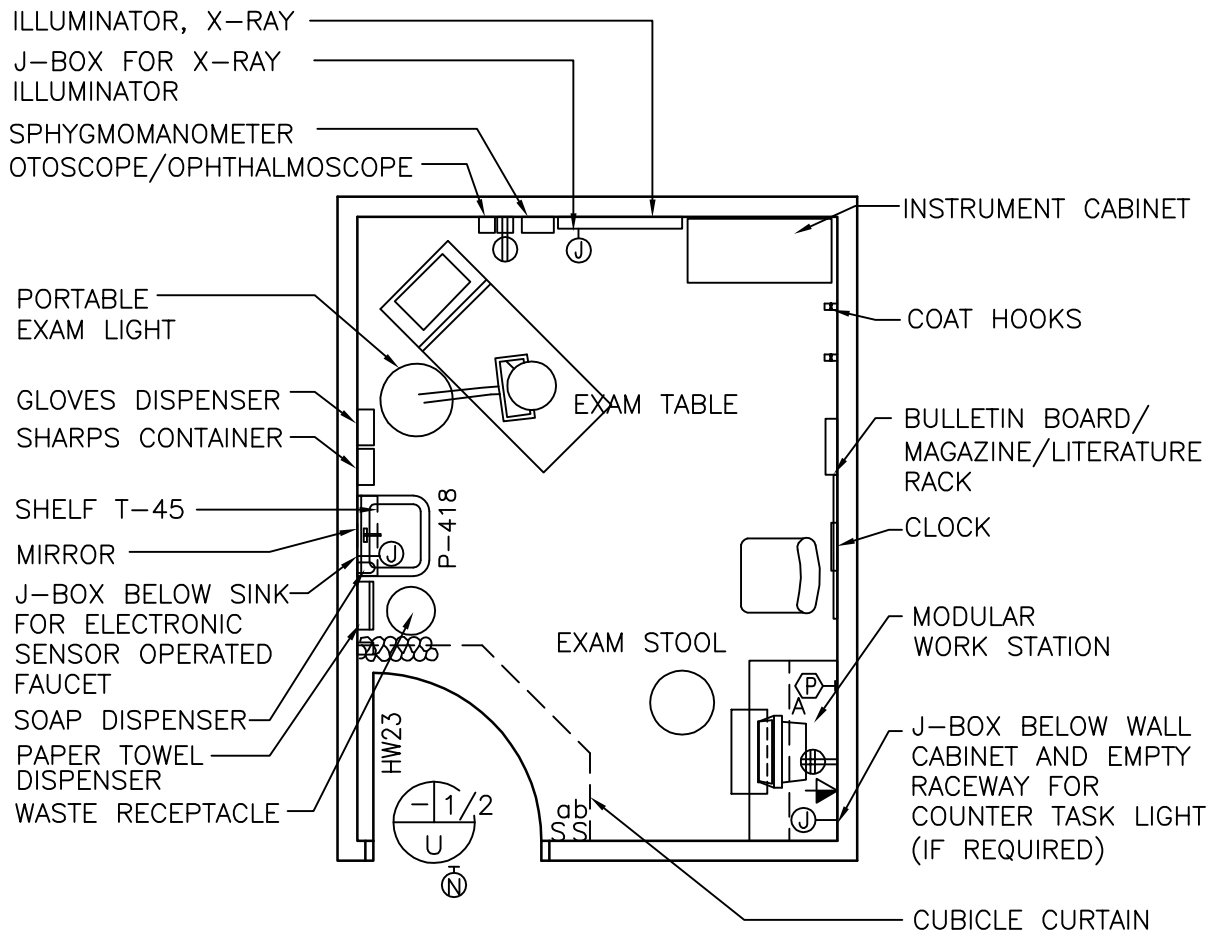
Laboratory: Microbiology (LMM03)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
				Note: VL (fixed) casework is shown; however, modular casework may also be selected (PG-18-1, MCS 12 32 00, 12 34 00).
E0574	VL4	AR	CC	Cabinet, under counter, with 2 dust seal drawers, 2 hinged doors and 1 adjustable shelf, 36" W (900 mm W), 224" D (5600 mm D), 31" H (775 mm H), add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL6	AR	CC	Cabinet, under counter, with 1 drawer, 1 door and 1 adjacent shelf 36" (900 mm); 30" D (750 mm D), 25" H (635 mm H) add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL14	AR	CC	Table frame with drawers, knee space unit, width are, 30" D (750 mm D), 25" H (635 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL20	AR	CC	Cabinet, under counter, sink unit, 2 hinged panel doors 36" W (900 mm W); 30" D (750 mm D); 25" H (635 mm H), add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL25	AR	CC	Cabinet, wall, with sloping top, 2 glazed sliding doors and 2 adjustable shelves, 36" W (900 mm W), 13" D (325 mm D), 30" H (750 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
C0051	VL54	1	CC	Pegboard, epoxy, 53 pegs, 32" x 30" (800 mm x 750 mm) (PG-18-1, PG-18-6, MCS 12 36 00)
A5165	VL26	1	CC	Shelf, corrosion resistant metal, 12" W x 6" D (300 mm W x 150 mm D), wall hung (PG-18-1, PG-18-6, MCS 12 36 00)
CT060	13B	AR	CC	Counter top, epoxy resin, with drip groove, 1" (25 mm) THICK x 30" (750 mm) deep along both walls (PG-18-1, PG-18-6, MCS 12 36 00)
L2336	H12-54	1	CC	Cabinet, air flow, biological, with lab air, fuel gas and lab vacuum outlets, 120 volt, receptacle (PG-18-1, PG-18-6, MCS 11 53 53)
CS270	S-3	1	CC	Sink, molded resin with end or corner drain, 18" W x 14" L x 16" D (450 mm W x 350 mm L x 400 mm D) (PG-18-1, PG-18-6, MCS 12 36 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
R7250		1	VV	Refrigerator/freezer, 120 volt, domestic, approx. 31" W x 28" D 66" H (775 mm W x 700 mm D x 1650 mm H)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		2	VV	Hook, coat, wall mounted
L0100		1	VV	Microscope
L4215		1	VV	Incubator, bench top



Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1) Floor Plan

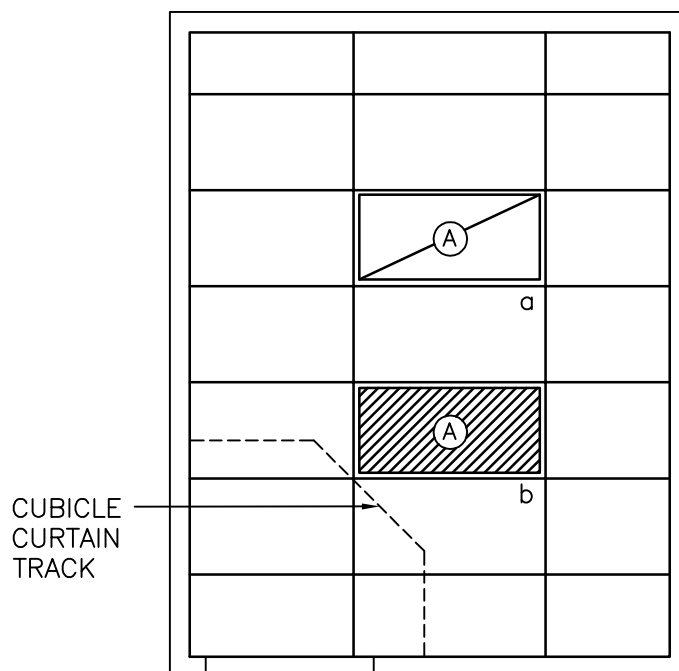


130 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)
Reflected Ceiling Plan



130 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB Lay-in Panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) Portable Examining Light. 3) The foot-candle level is average maintained. 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement. 6) Fluorescent nurse call light.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> 1) Coordinate location and height of work station receptacles with modular furniture. 2) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)

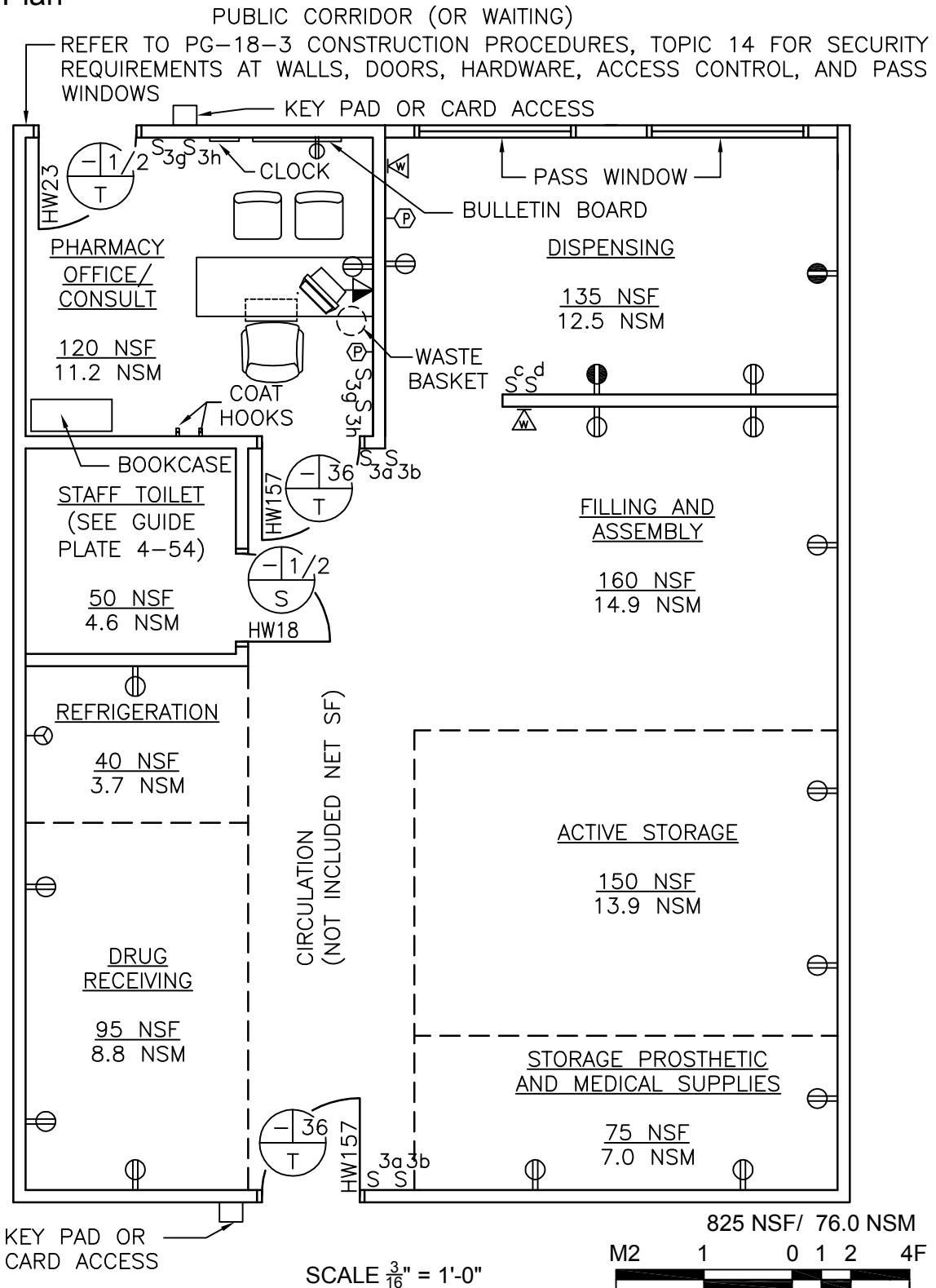
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" x 5" (300 mm x 125 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-3)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5145		2	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
X3930		AR	VV	Illuminator, x-ray film 120 volts, wall mounted individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
F0205		1	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M7401		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted



Pharmacy - Basic Service

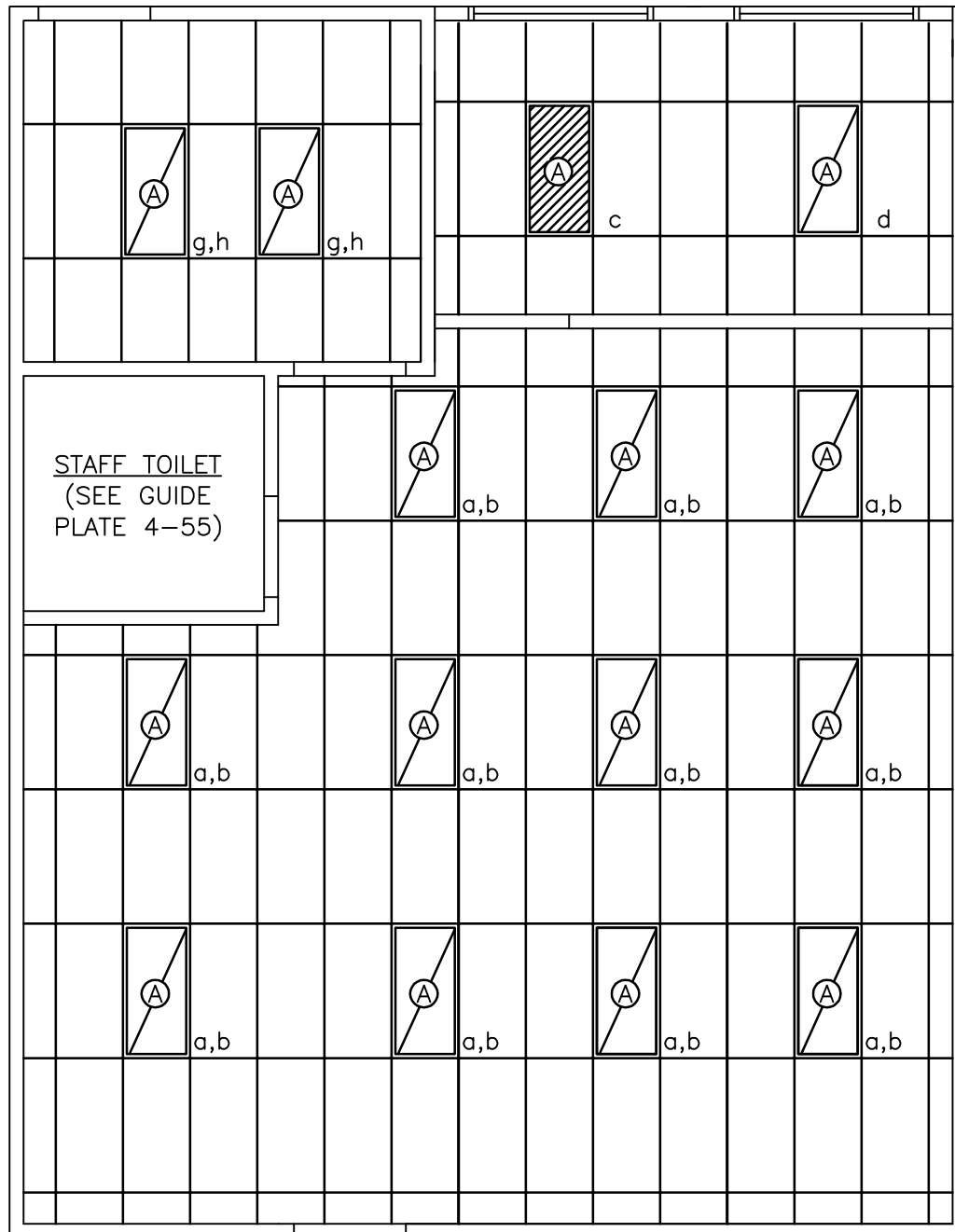
Floor Plan



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Pharmacy - Basic Service

Reflected Ceiling Plan



825 NSF/ 76.0 NSM

SCALE $\frac{3}{16}" = 1'-0"$



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Pharmacy – Basic Service (Office, Pharmacist/Consultation Room)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Ht:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CPT
Slab Depression:	--
Notes:	1) Provide physical security features in accordance with PG-18-3, Construction Procedures, Topic 14

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	1) Fluorescent fixtures 2' x 4' (600 mm x 1200 mm) shall be recessed with acrylic lens, w/ F32T8, color temperature of 3500°K and CRI not less than 70.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	Yes
MID:	Yes
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Pharmacy – Basic Service (Storage & Packs)

Design Standards

ARCHITECTURAL

Ceiling: AT
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: GWB-P/PL-P over CMU
 Wainscot: --
 Base: RB
 Floor Finish: VCT
 Slab Depression: --
 Notes: 1) 3'-4" (1000 mm) doors

SPECIAL EQUIPMENT**LIGHTING****STORAGE**

General: --
 Special: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic reflector, w/ F32T8 lamps, 3500° K (minimum), CRI=70 (minimum).
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General: As Shown
 Emergency: --
 Notes: --

COMMUNICATION/SPECIAL SYSTEMS

Data: --
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: Yes
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: --

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
 30 Percent to 50 Percent Relative Humidity
 Minimum Air Changes per Hour: 4
 100% Exhaust: No
 100% Outside Air: No
 Room Air Balance: Negative (-)
 Dedicated Exhaust System: No
 Occupancy: 4
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: --

PLUMBING AND MEDICAL GASES

Cold Water: --
 Hot Water: --
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: --
 Reagent Grade Water: --
 Medical Air: --
 Medical Vacuum: --
 Oxygen: --
 Notes: --



Pharmacy – Basic Service (Dispensing)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P/PL-P over CMU
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) 3'-4" (1000 mm) doors

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic reflector, w/ F32T8 lamps, 3500° K (minimum), CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	--
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	Yes
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

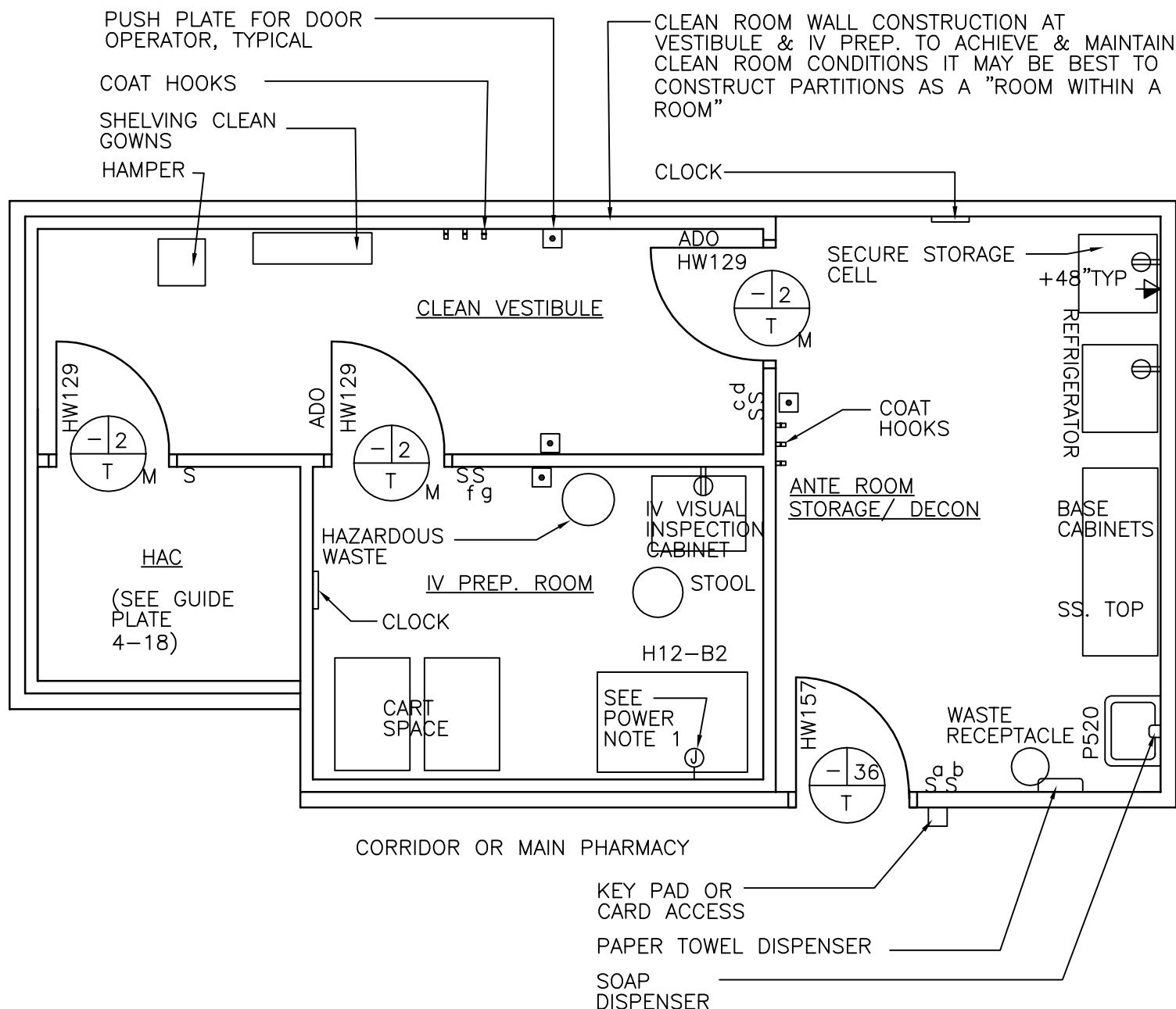


Pharmacy – Basic Service

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
				Note: Equipment to be determined by pharmacy service, VACO for each project.

Floor Plan

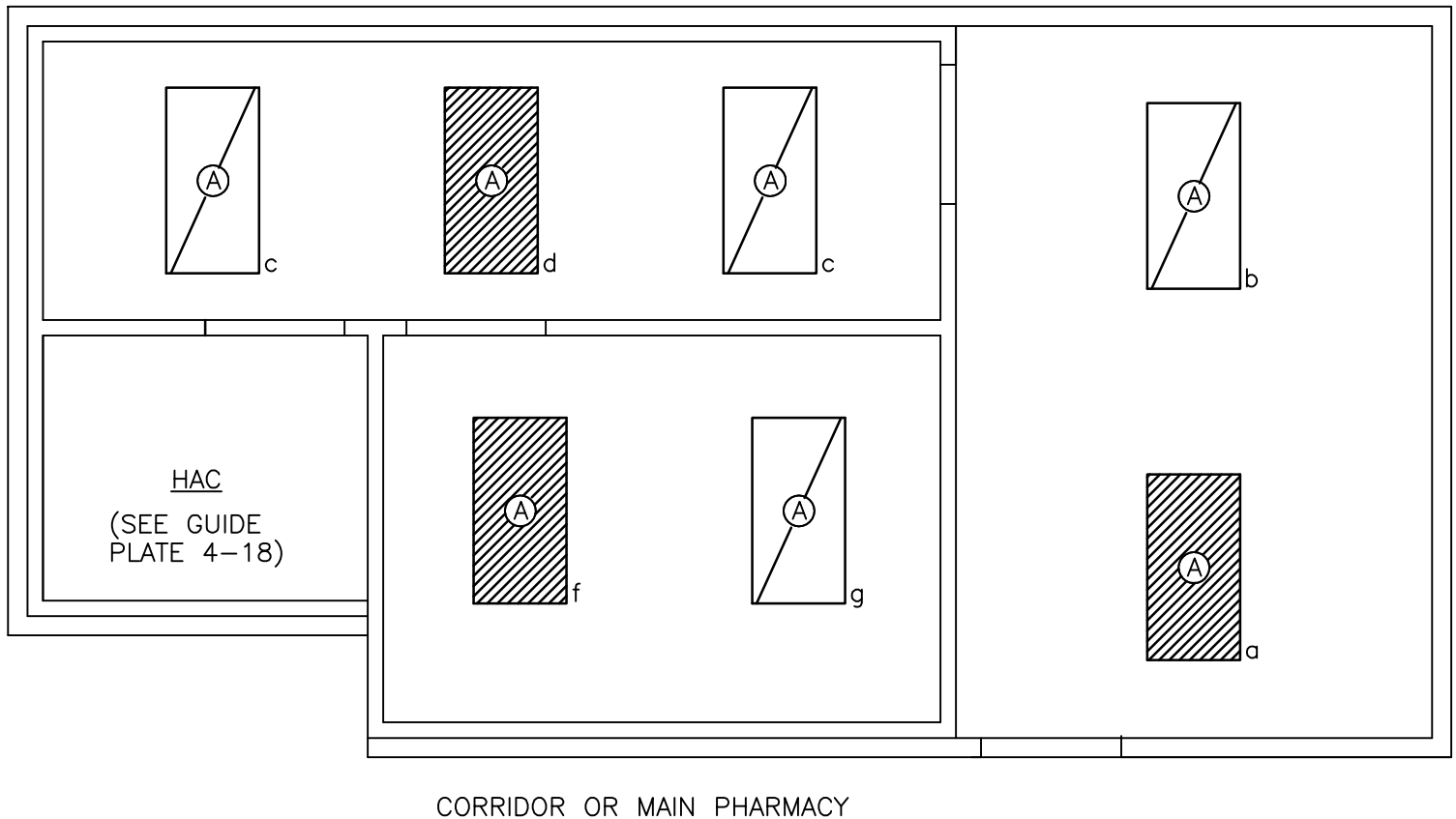


40 NSF/ 3.7 NSM (HAC)

DOES NOT INCLUDE CIRCULATION TO ACCESS CLEAN VESTIBULE

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Pharmacy: Oncology Drugs Preparation Area (PHIV3)
Reflected Ceiling Plan



IV Prep. Room (Hazardous Clean Room)
Ante Room & Storage/ DECON
HAC

100 NSF / 9.3 NSM (PHIV3)
95 NSF/ 8.8 NSM (XXYZ+ PHBS2)
40 NSF/ 3.7 NSM (HAC)

DOES NOT INCLUDE CIRCULATION TO ACCESS CLEAN VESTIBULE

SCALE $\frac{1}{4}" = 1'-0"$



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Pharmacy: Oncology Drugs Preparation Area (PHIV3)

Design Standards

NOTE: Prep Room must meet USP 797 standards for use as a “hazardous clean room.” Separate Ante Room and Vestibule are required to meet criteria for air balance (pressurization) and storage of hazardous drugs.

ARCHITECTURAL

ANTE ROOM

Ceiling:	GWB-SC
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	WSF, 6" (150 mm) Integral Cove
Floor Finish:	WSF

VESTIBULE & PREP ROOM

Ceiling:	GWB-SC
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	Note 1
Wainscot:	--
Base:	WSF, 6" (150 mm) Integral Cove
Floor Finish:	WSF

- Notes: 1) Provide Clean Room (ISO 7) wall construction: non-dusting (no GWB or cement backer board), smooth and cleanable, resistant to isopropyl alcohol and disinfectants; and impact resistant. Acceptable materials include: glass fiber reinforced panels (FRP), epoxy coated aluminum wall panels, laminate faced panels, and solid surface (acrylic) panels.
- 2) Use epoxy coatings (SC) on metal doors and frames to resist cleaning agents. Provide automatic door operators on Vestibule and Prep Room doors.
- 3) Comply with PG 18-3, Design and Construction Procedures, Topic 14 Security for Pharmacy storage/manufacturing areas.

LIGHTING

- General: --
- Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens. F32T8 lamps, 3500°K, CRI=70 (minimum).
- 2) Fixtures shall be suitable for use in contamination-controlled ISO 7 environment.
- 3) The foot-candle level is average maintained.
- 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

- General: --
- Emergency: As Shown
- Notes: 1) Junction box/wiring device for biological safety cabinet. Connection and mounting height requirements per manufacturer.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	Yes
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--



Pharmacy: Oncology Drugs Preparation Area (PHIV3) – Cont'd

Design Standards

HEATING, VENTILATING AND AIR CONDITIONING

See HVAC Design Manual for additional requirements.

ANTE ROOM

Inside Design Conditions: Cooling: 68°F (20°C)
 Dry-Bulb Temperature (maximum)
 55 Percent Relative Humidity
 Heating: 68°F (20°C)
 Dry-Bulb Temperature (minimum)
 40 Percent Relative Humidity
 Minimum Air Changes per Hour: 30
 100% Exhaust: Yes
 100% Outside Air: Yes
 Room Air Balance: Positive (+)
 Dedicated Exhaust System: Yes
 Occupancy: 2
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required

VESTIBULE & PREP ROOM

Inside Design Conditions: Cooling: 68°F (20°C)
 Dry-Bulb Temperature (maximum)
 55 Percent Relative Humidity
 Heating: 68°F (20°C)
 Dry-Bulb Temperature (minimum)
 40 Percent Relative Humidity
 Minimum Air Changes per Hour: 30
 100% Exhaust: Yes
 100% Outside Air: Yes
 Room Air Balance: Vestibule: Positive (+)
 Prep Room: Negative (-)
 Dedicated Exhaust System: Yes
 Occupancy: 2
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: Yes
 Reagent Grade Water: --
 Medical Air: --
 Medical Vacuum: --
 Oxygen: --



Pharmacy: Oncology Drugs Preparation Area (PHIV3)

Equipment List

IV PREP ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
L2336	H12-B2	1	CC	Biological safety cabinet H12B2-48 (laminar flow), Class II; Type B-2, 100% direct exhausted air through the work-space. 48" W x 38" D x 72" H (1200 mm W x 950 mm D x 1800 mm H) (PG-18-1, PG-18-6; MCS 11 53 53)
		AR	CC	Junction box, wall, 120V power for equipment (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	VV	Cabinet, intravenous (IV), visual clarity inspection, 30" W x 24" D (750 mm W x 600 mm D), 120 volts
M2055		AR	VV	Cart, exchange, CRS wire
F0340		AR	VV	Stool, rotary
F3200		1	VV	Clock, atomic, battery operated
M3072		AR	VV	Receptacle, hazardous waste, approx. 12" (300 mm) diameter

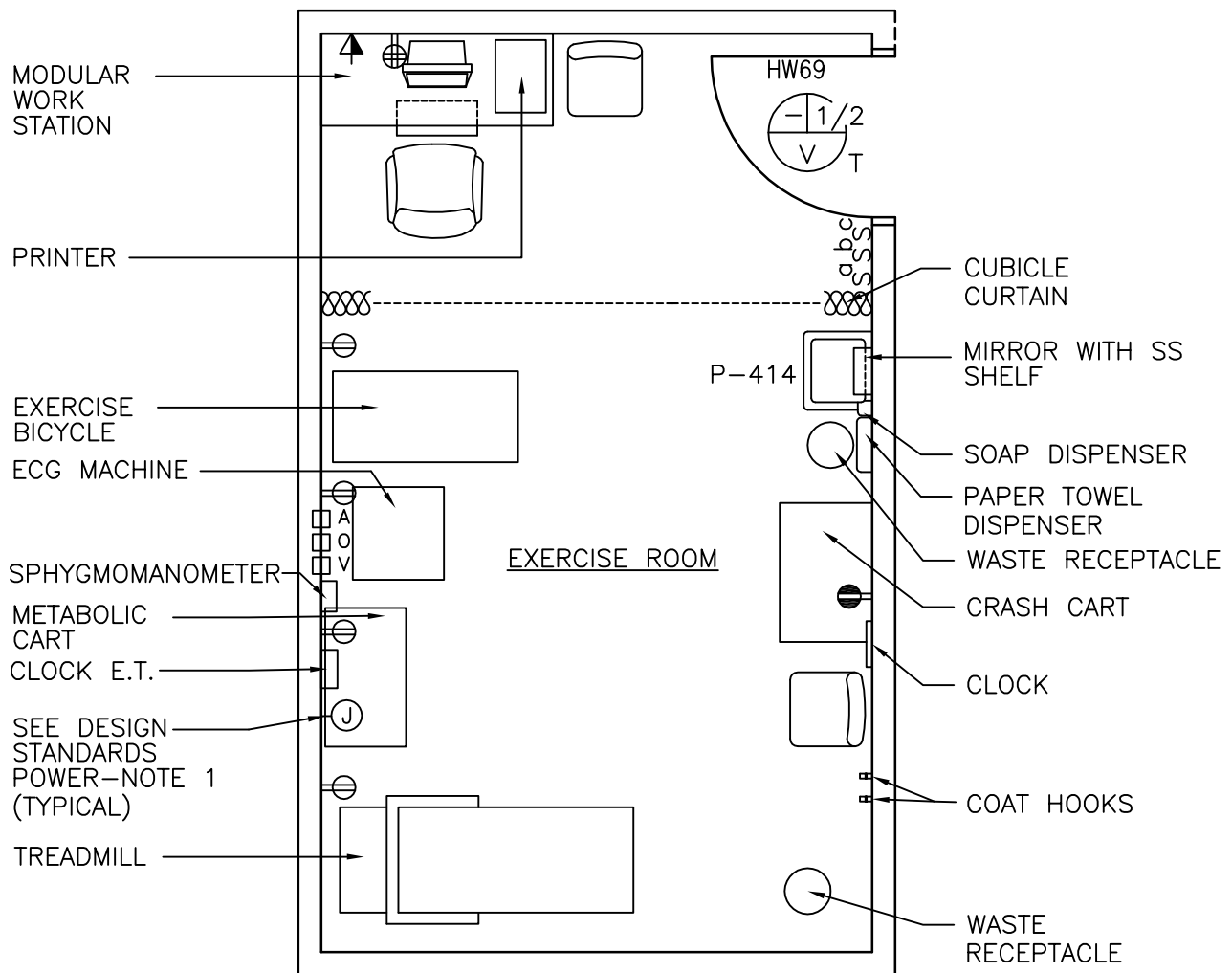
VESTIBULE				
JSN	SYMBOL	QTY	AI	DESCRIPTION
A5145		AR	VV	Hook, coat, wall mounted
M2055		AR	VV	Shelving, open for clean gowns and supplies
M3070		1	VV	Hamper, soiled linen, approx. 20" (500 mm)

ANTE ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
C03G0 & CT050		AR	CC	Base cabinets, stainless steel (PG-18-1, MCS 12 31 00); with stainless steel top and backsplash (PG-18-1, MCS 12 36 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
P6980	P-520	1	CC	Sink, surgeon's scrub-up, sensor control, approx. 28" x 22" (700 mm x 550 mm), 12" (300 mm) deep (PG-18-1, MCS 22 40 00)
		AR	CC	Card key access (PG-18-1, MCS 28 13 16)
R6060		1	VV	Refrigerator, biological, reach-in, with hinged glass doors, 30" W x 33" D x 81" H (750 mm W x 825 mm D x 2025 mm H)
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		AR	VV	Receptacle, waste, step-on type, approx. 15" (380 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
M3150		AR	VV	Automated medication storage/dispensing unit (cell), secure, approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)



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Pulmonary: Exercise Room (OPPF5) Floor Plan



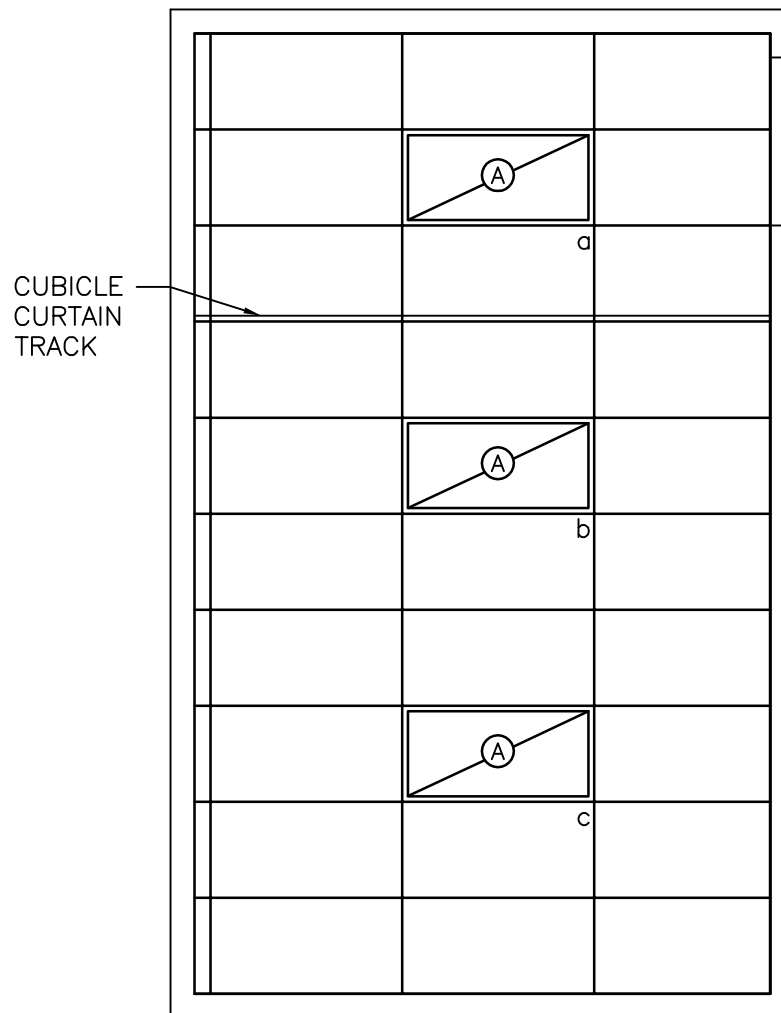
240 NSF/ 22.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$

M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Pulmonary: Exercise Room (OPPF5)
Reflected Ceiling Plan



240 NSF/ 22.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Pulmonary: Exercise Room (OPPF5)

Design Standards

ARCHITECTURAL (EXERCISE ROOM)

Ceiling: AT
 Ceiling Height: 9'-6" (2900 mm); where possible
 Wall Finish: GWB-P
 Wainscot: --
 Base: RB
 Floor Finish: VCT
 Notes: --

ARCHITECTURAL (TOILET/SHOWER)

Ceiling: PCP-P at Shower;
 GWB-P/PL-P at Toilet
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: CT
 Wainscot: --
 Base: CT
 Floor Finish: CT (Slip Resistant)
 Slab Depression: 3" (75 mm)
 Notes: 1) Extend shower pan waterproofing through drying area and provide floor drain.

SPECIAL EQUIPMENT**LIGHTING**

General: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General: As Shown
 Emergency: As Shown
 Notes: 1) Junction boxes for elapsed time clock and controls as required.
 2) 220 VAC usually required for treadmills.
 3) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: For Exercise Room Only
 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
 30 Percent to 50 Percent Relative Humidity
 Minimum Air Changes per Hour: 10 – Exercise Room
 10 – Toilet & Shower (or 75 CFM/Fixture)
 100% Exhaust: No
 100% Outside Air: No
 Room Air Balance: Exercise Room – Neutral (0)
 Toilet/Shower – Double Negative (--)
 Dedicated Exhaust System: No
 Occupancy: 6 (Exercise Room)
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water: Yes
 Hot Water: Yes
 Laboratory Air: --
 Laboratory Vacuum: --
 Sanitary Drain: Yes
 Reagent Grade Water: --
 Medical Air: Yes
 Medical Vacuum: Yes
 Oxygen: Yes
 Toilet and Shower: --
 Notes: --



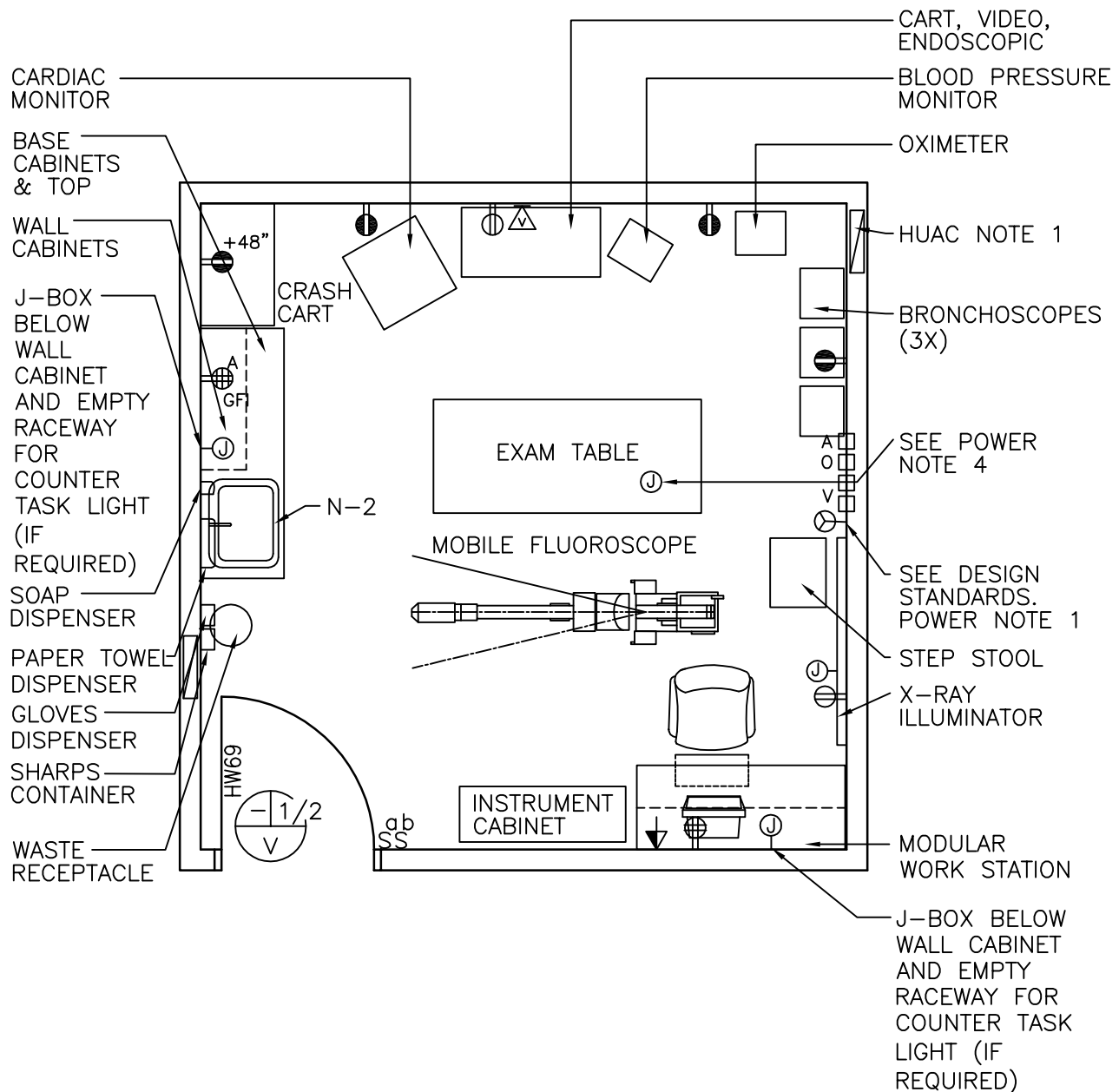
Pulmonary: Exercise Room (OPPF5)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
				Note: Electrical receptacle for crash cart to be on emergency power.
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
A4015		1	CC	Clock, electric time elapsed, recessed (PG-18-1, MCS 27 52 41)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, 10 28 00-4)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
F0205		AR	VV	Chair, rotary, with arms
F0205		AR	VV	Chair, straight, without arms
M1801 & M1825		1	VV	Desk top PC, CRT, and printer
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M8125		1	VV	Computer assisted recumbent bicycle aerobic trainer
M8185		1	VV	Machine, treadmill, with controls, 120 volt, approx. 72" x 30" (1800 mm x 750 mm)
M7710		1	VV	Machine, twelve (12) leads "ECG"
M0730		1	VV	Metabolic cart
F3200		1	VV	Clock, atomic, battery operated
A5145		AR	VV	Hook, coat, wall mounted
F2017		1	VV	Receptacle, waste, 13" (325 mm) diameter
A5180		AR	VV	Curtain, cubicle
M4116		1	VV	Electronic sphygmomanometer (portable)



Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2) Floor Plan

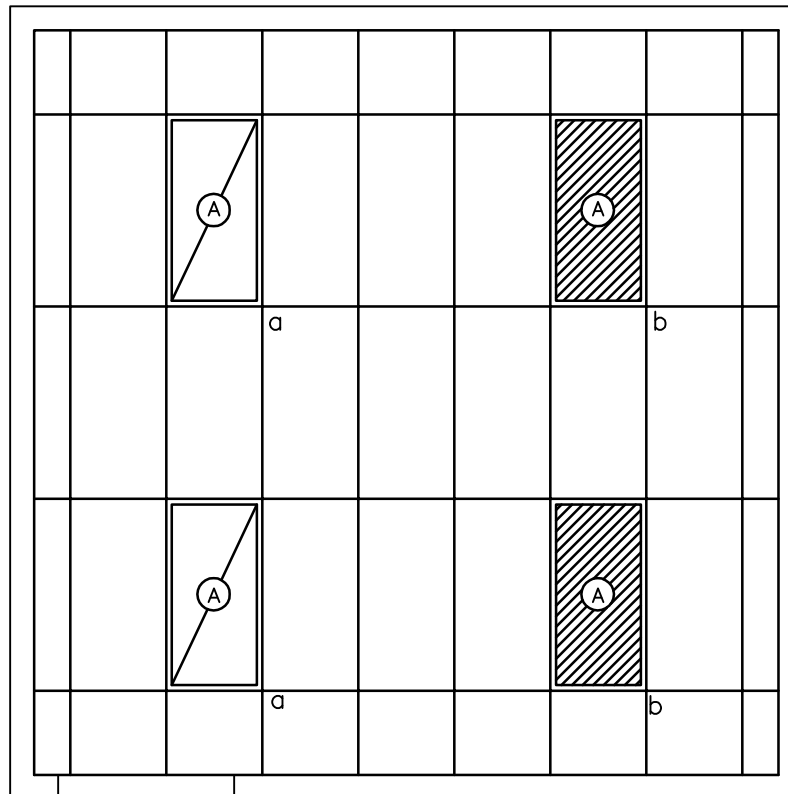


240 NSF/ 22.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2) Reflected Ceiling Plan



240 NSF/ 22.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2)

Design Standards

ARCHITECTURAL

Ceiling:	AT(SP)
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-W
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) 3'-8" (1100 mm) wide entry door with 8" x 10" (200 mm x 250 mm) tempered glass view window.

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixtures, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) Provide emergency power for x-ray illuminator. 3) The foot-candle level is average maintained. 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	1) Special emergency power receptacle for mobile fluoroscopy unit. (Coordinate with system supplier.) 2) Receptacle for crash cart to be on emergency power. 3) Coordinate location and height of work station receptacles with modular furniture. 4) Verify exam table power requirements with manufacturer.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--

COMMUNICATION/SPECIAL SYSTEMS (Cont'd)

Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Junction box for CCTV camera with conduit to adjacent diagnostic room. 2) Junction box for poly somnograph cabling with conduit diagnostic room. 3) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	Yes
100% Outside Air:	Only if AHU is 100% OA
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	Yes
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Provide exhaust air inlets at the floor level. 2) Provide a hood and exhaust for instrument cleaning if taking place in this room. 3) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2)

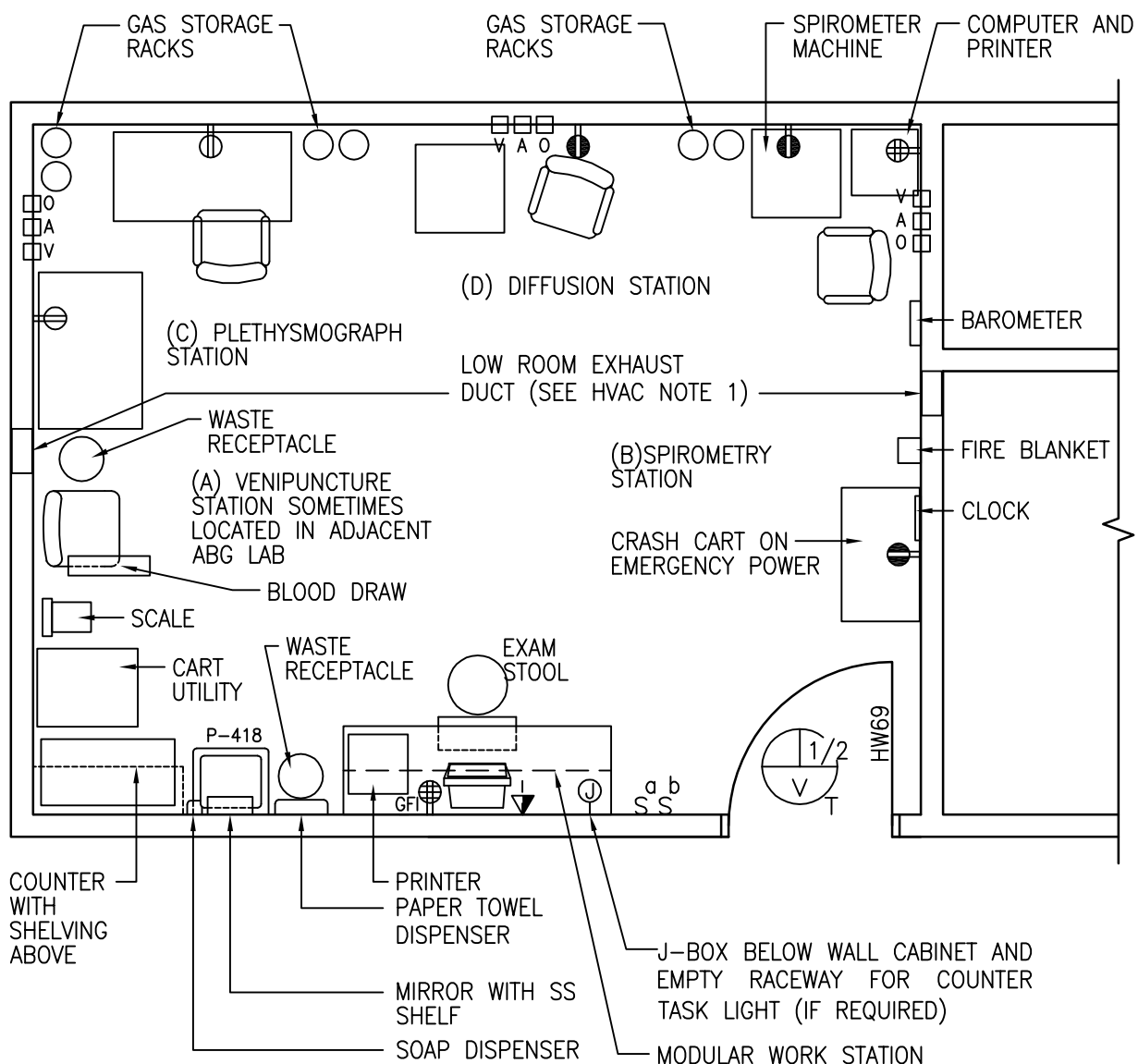
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Outlet, medical air, ceiling (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, ceiling (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, ceiling (PG-18-1, MCS 22 62 00)
E0210		AR	CC	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
CS105	N-2	1	CC	Sink, corrosion resisting steel, with end or corner drain outlet, 22" x 16" x 11" (550 mm x 400 mm x 275 mm) (PG-18-1 & PG-18-6, MCS 12 36 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
C03P0		AR	CC	Base cabinets, plastic laminate (PG-18-1, MCS 12 32 00) with plastic laminate top and splash (PG-18-1, MCS 12 36 00)
CE030		AR	CC	Wall cabinets, plastic laminate, with hinged glass doors (PG-18-1, MCS 12 32 00)
M4116		1	VV	Blood pressure monitor
M8508 M8506 M8505 M8502 M8507 M8503 M8504		3	VV	Bronchoscopes
M3085		1	VV	Cabinet, instruments, 48" x 16" x 72" (1200 mm x 400 mm x 1800 mm), with glazed doors, sloping top
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
M8605		1	VV	Cart, video, endoscopic
M1801		1	VV	PC, computer system, with keyboard
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
X3930		AR	VV	Illuminators, film, x-ray, 120 volt, wall mounted (1 bank of 4)
M7860		1	VV	Monitor, cardiac - on cart (floor unit)
M7905		1	VV	Monitor, ear oximeter
F2017		1	VV	Receptacle, waste, 13" (325 mm)
F0355		1	VV	Stool, step, approx. 20" x 16" (500 mm x 400 mm)
M4665		1	VV	Table, examination-patient, x-ray, translucent top
X4890		1	VV	X-ray/fluoroscope (mobile unit and monitor)
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
F0205		1	VV	Chair, rotary, with arms



Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)

Floor Plan



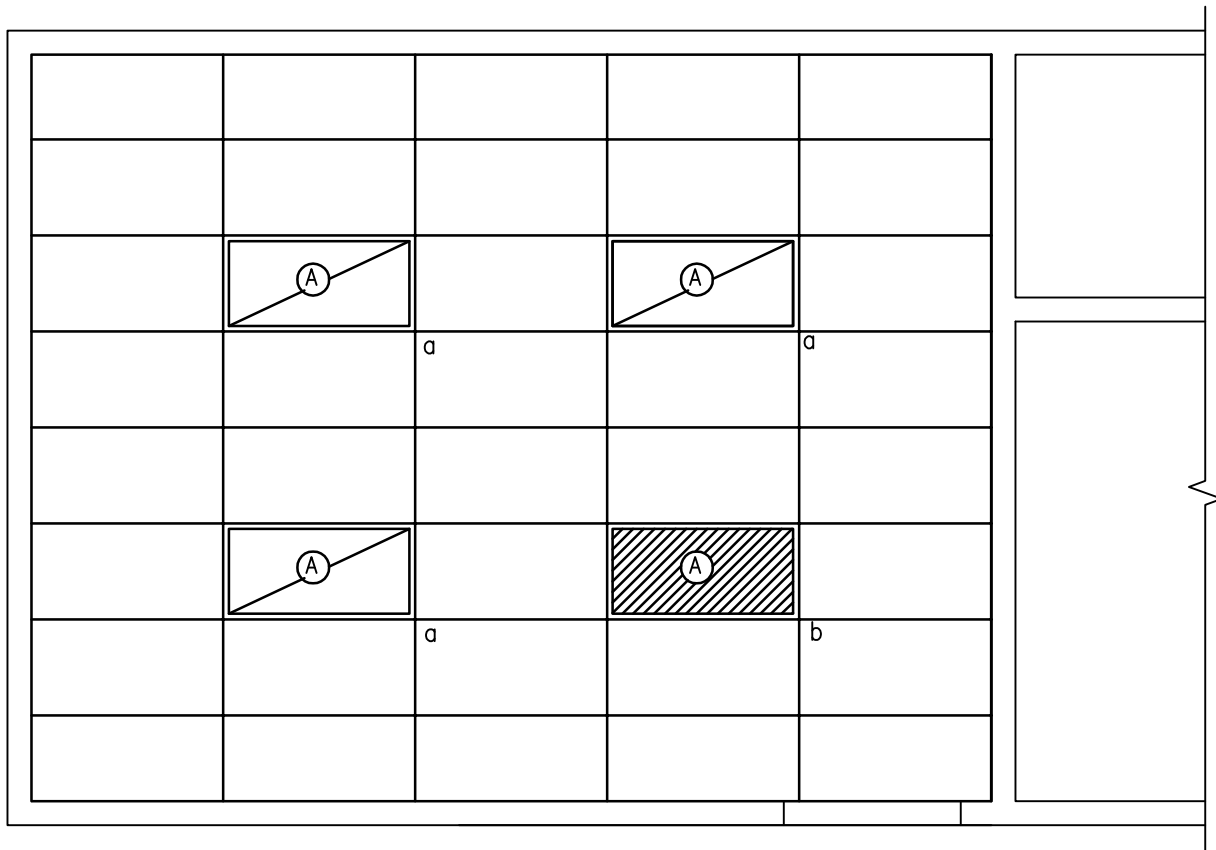
312 NSF/ 29.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)
Reflected Ceiling Plan



312 NSF/ 29.0 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-W
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
----------	----

- Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixtures, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
- 2) The foot-candle level is average maintained.
- 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown

- Notes: 1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--

- Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12-CV Required
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	8
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	Yes
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Counter, with knee space and shelving above
P3100	P-418	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
M2025		AR	CC	Rack, gas cylinder storage (PG-18-1, PG-18-6, MCS 05 50 00)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	VV	Barometer, wall, 48" (1200 mm) high
A5230		1	VV	Fire blanket cabinet
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
A0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
		1	VV	Stool, examining, adjustable
M1801		AR	VV	PC, computer system, with keyboard
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, 13" (325 mm) diameter
				(A)Venipuncture Station
F0535		AR	VV	Cart, utility, corrosion resisting steel, 36" x 18" x 30" (900 mm x 450 mm x 750 mm)
M1410		1	VV	Chair, blood-draw
F2017		1	VV	Receptacle, waste, 13" (325 mm) diameter
M4030		1	VV	Scale, patient
				(B)Spirometry Station
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
F0205		1	VV	Chair, straight, with arms
M1801 & M1825		1	VV	Computer and printer
M0700 M0705 or M0710		1	VV	Machine, spirometry with recorder and medical gas cylinders
F3200		1	VV	Clock, atomic, battery operated



Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1) – Cont'd

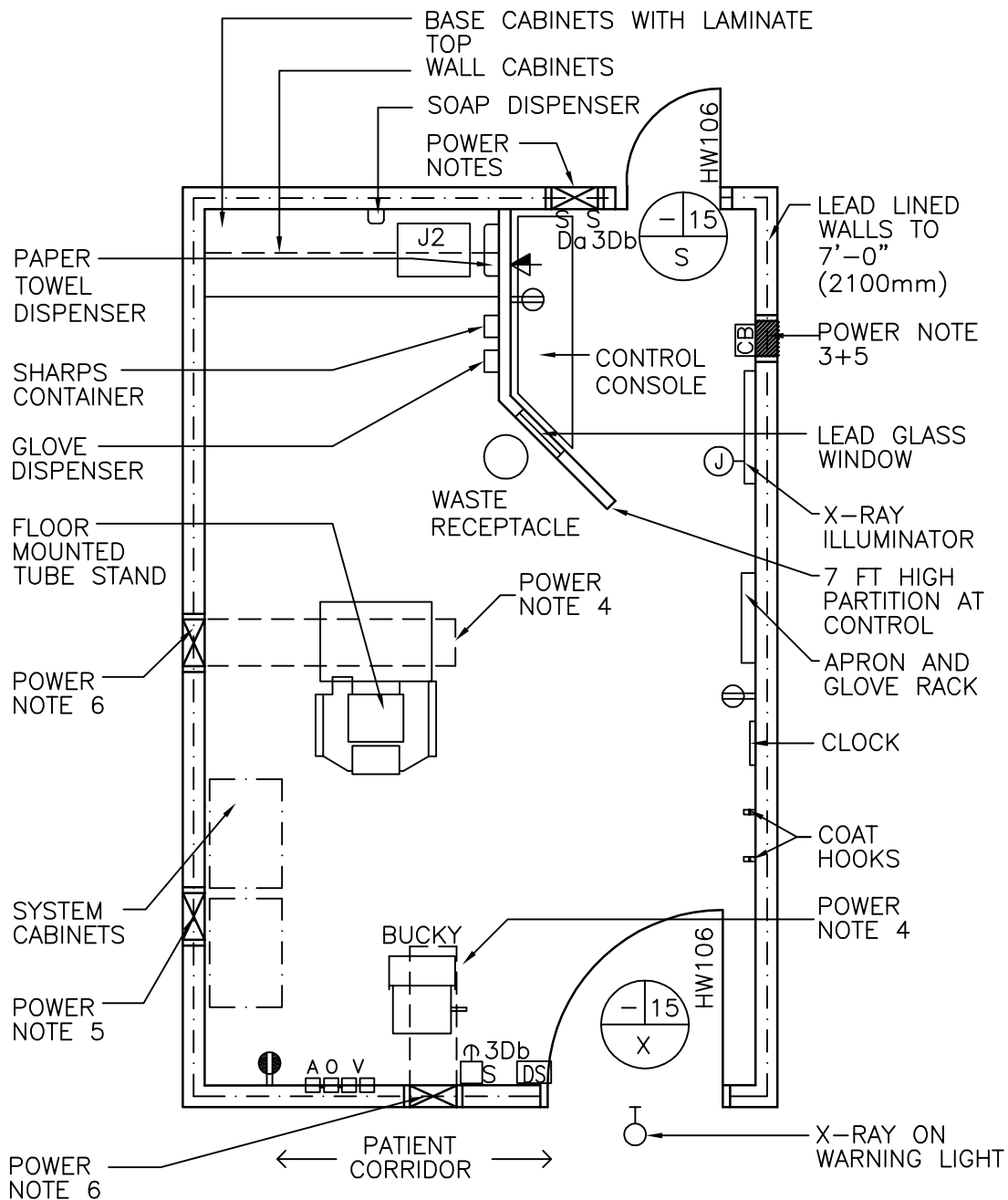
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
				(C)Plethysmography Station
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
F0205		1	VV	Chair, straight, with arms
M0520		1	VV	Plethysmograph with separate medical gas cylinders
				(D)Diffusion Station
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
F0205		1	VV	Chair, straight, with arms
		AR	VV	Unit, diffusion



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Radiology: Chest Room, Dedicated (XDCS1) Floor Plan



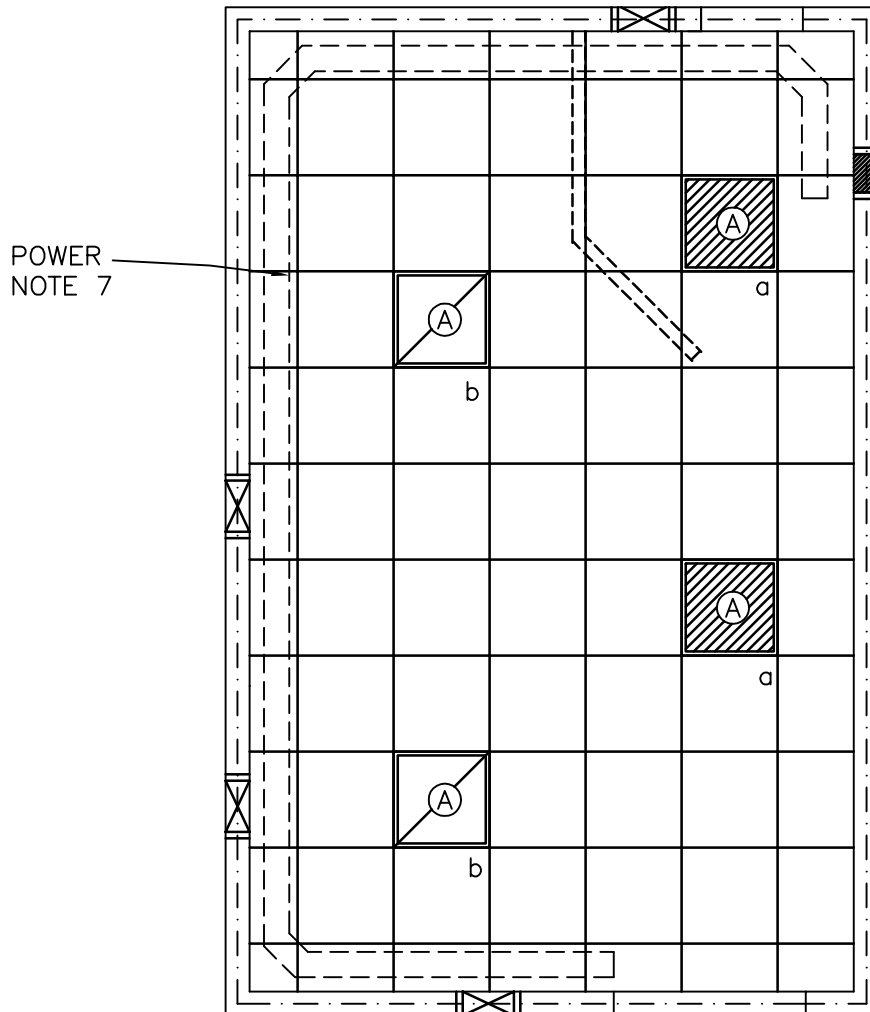
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

250 NSF/ 23.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Chest Room, Dedicated (XDCS1) Reflected Ceiling Plan



250 NSF/ 23.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Chest Room, Dedicated (XDCS1)

Design Standards

ARCHITECTURAL

Ceiling: AT
 Ceiling Height: 9'-6" (2900 mm)
 Wall Finish: GWB-P
 Wainscot: --
 Base: RB
 Floor Finish: VCT
 Slab Depression: --
 Notes: 1) See PG-18-10 Design Manual for X-Ray Radiation Shielding and Special Control.

SPECIAL EQUIPMENT**LIGHTING**

General: --
 Special: --
 Notes: 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum). Non-emergency fixtures have dimming switch for central lamp.
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 5) X-ray on warning light with fluorescent lamp.

POWER

General: As Shown
 Emergency: As Shown
 Notes: 1) The electrical plan is a planning guide only. Final installation shall be coordinated with vendor's installation drawings.

POWER (cont'd)

- 2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.
- 3) 480V, 3P, adjustable trip flush mounted circuit breaker with shunt trip. Run empty 2" (600 mm) conduit. from circuit breaker to x-ray duct above finished ceiling.
- 4) Flush floor duct with screw-on cover. Connect to x-ray duct above finished ceiling and terminate at finished floor.
- 5) Flush vertical wall duct with screw-on cover. Connect to floor duct and to x-ray duct above finished ceiling.
- 6) Flush vertical wall duct with screw-on cover. Connect to x-ray duct above finished ceiling and terminate at finished floor.
- 7) X-ray duct above finished ceiling with screw-on cover. Connect to vertical wall ducts.
- 8) Duct sizes shall meet manufacturer requirements.

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: --
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: --



Radiology: Chest Room, Dedicated (XDCS1) – Cont'd

Design Standards

**HEATING, VENTILATING AND AIR
CONDITIONING**

Inside Design Conditions: 70°F (21°C) to
75°F (24°C) Dry-Bulb
Temperature
30 Percent to
50 Percent
Relative Humidity
Minimum Air Changes per Hour: 6
100% Exhaust: No
100% Outside Air: No
Room Air Balance: Positive (+)
Dedicated Exhaust System: No
Occupancy: 2
AC Load-(Equipment): As Required
AC Load-(Light): As Required
Notes: 1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water: Yes
Hot Water: Yes
Laboratory Air: --
Laboratory Vacuum: --
Sanitary Drain: Yes
Reagent Grade Water: --
Medical Air: Yes
Medical Vacuum: Yes
Oxygen: Yes
Notes: --



Radiology: Chest Room, Dedicated (XDCS1)

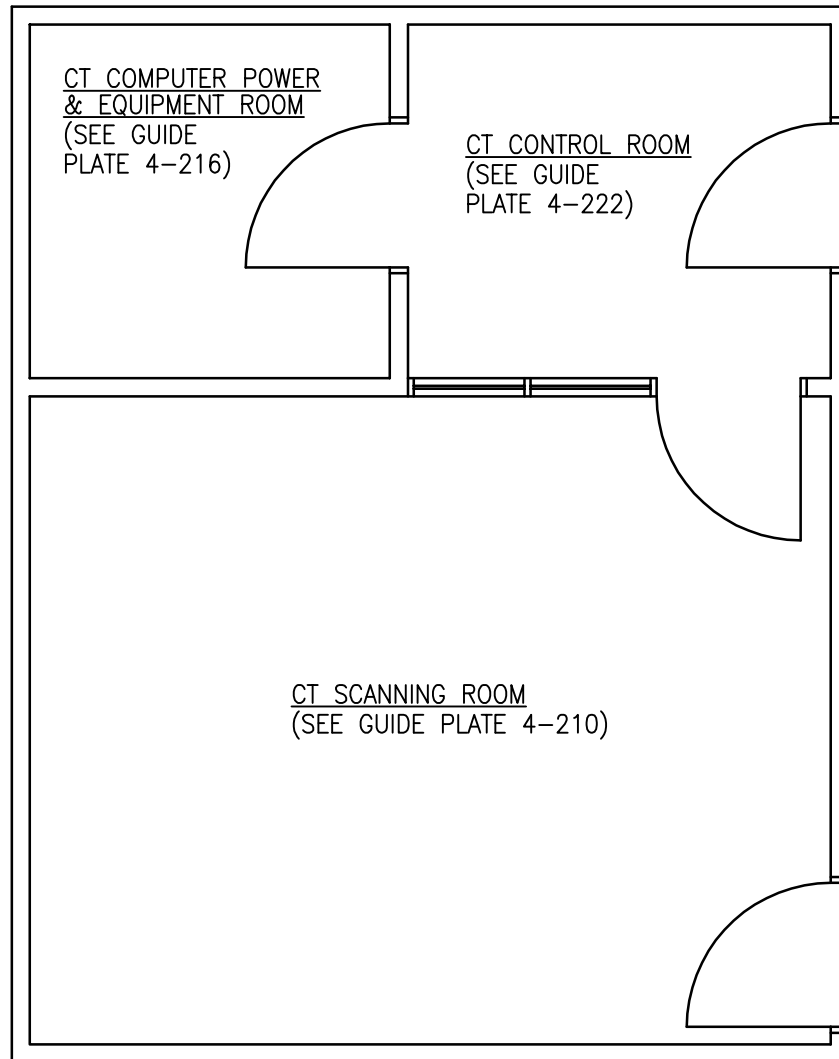
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
				Note: Provide only when approved for a specific project (oxygen, air, vacuum outlet and bracket).
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Connections, plumbing, electrical or mechanical as required
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 49)
		AR	CC	Low level dimmed fluorescent lighting system in addition to general fluorescent illumination system (PG-18-1, MCS 26 51 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
A6105		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 or 12 36 00)
	J-2	1	CC	Sink, corrosion resisting steel, center outlet, 18" x 15" x 8" (450 mm x 380 mm x 200 mm) (PG-18-1, MCS 12 36 00)
		1	CC	Window, lead glass, minimum 18" x 24" (450 mm x 600 mm) (PG-18-1, MCS 13 49 00)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	X-ray warning light
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
X5100		1	VC or CF	Automated CR chest unit - consists of the following components as required: Bucky, tilt, wall mounted Cabinet, rack Calculator, heat anode Console, control Module, power Rails, tube, ceiling mounted Stand, tube, ceiling mounted Starter, tube, high speed Transformer, high tension, x-ray Unit, chest, less tube stand Unit, forced extinction Unit, CR plate rotator Automated CR reader
F3200		1	VV	Clock, atomic, battery operated
A5085		1	VV	Dispenser, paper towel, surface mounted
A5145		1	VV	Hook, coat, wall mounted
X3150		1	VV	Rack, glove/apron, wall mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser
X3930		1	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 31" (500 mm x 775 mm), 2 in 1



Radiology: CT Scanning Suite

KeyPlan



654 NSF/ 60.8 NSM

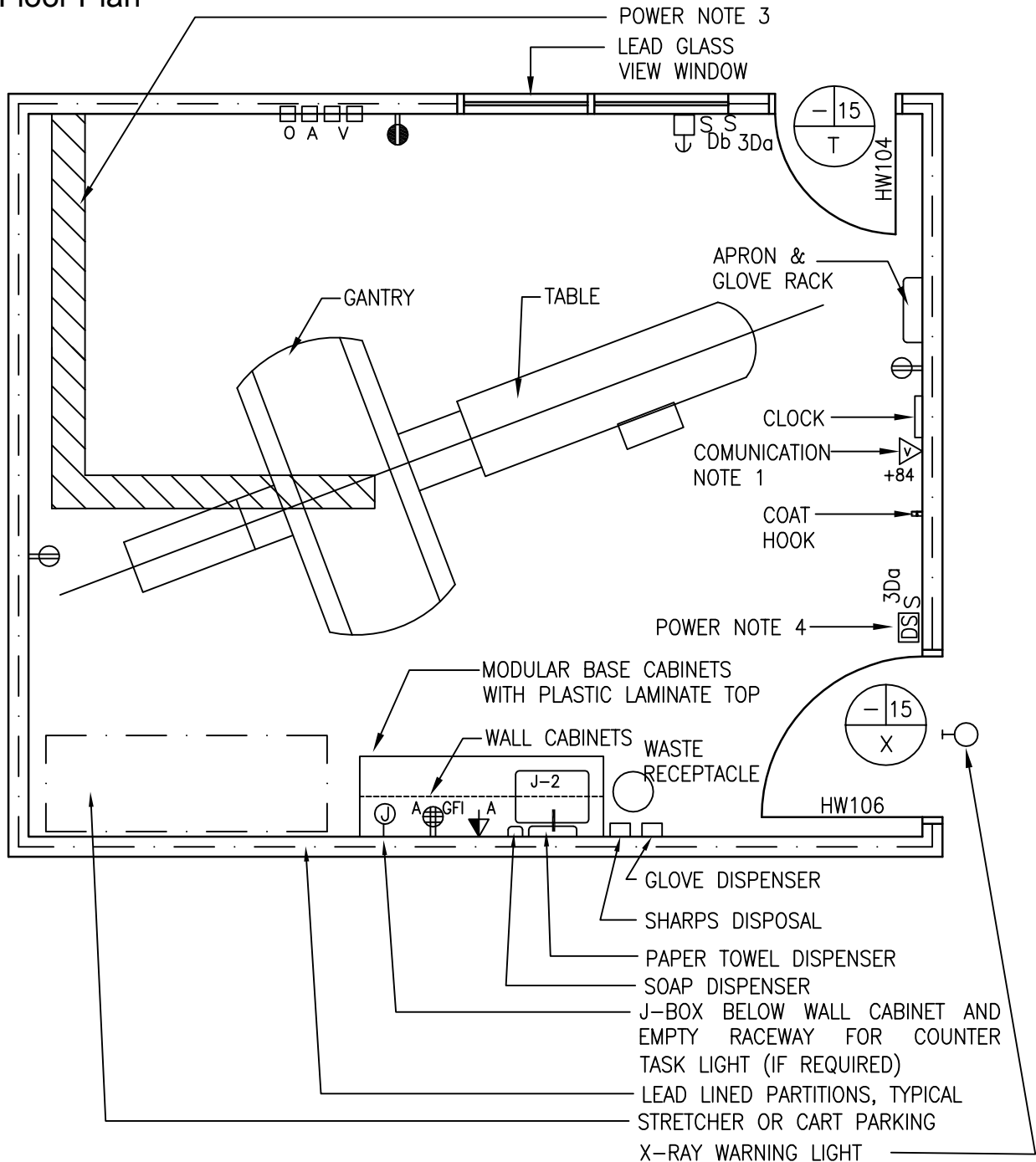
SCALE 3/16" = 1'-0"



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: CT Scanning Room (XCTS1)

Floor Plan



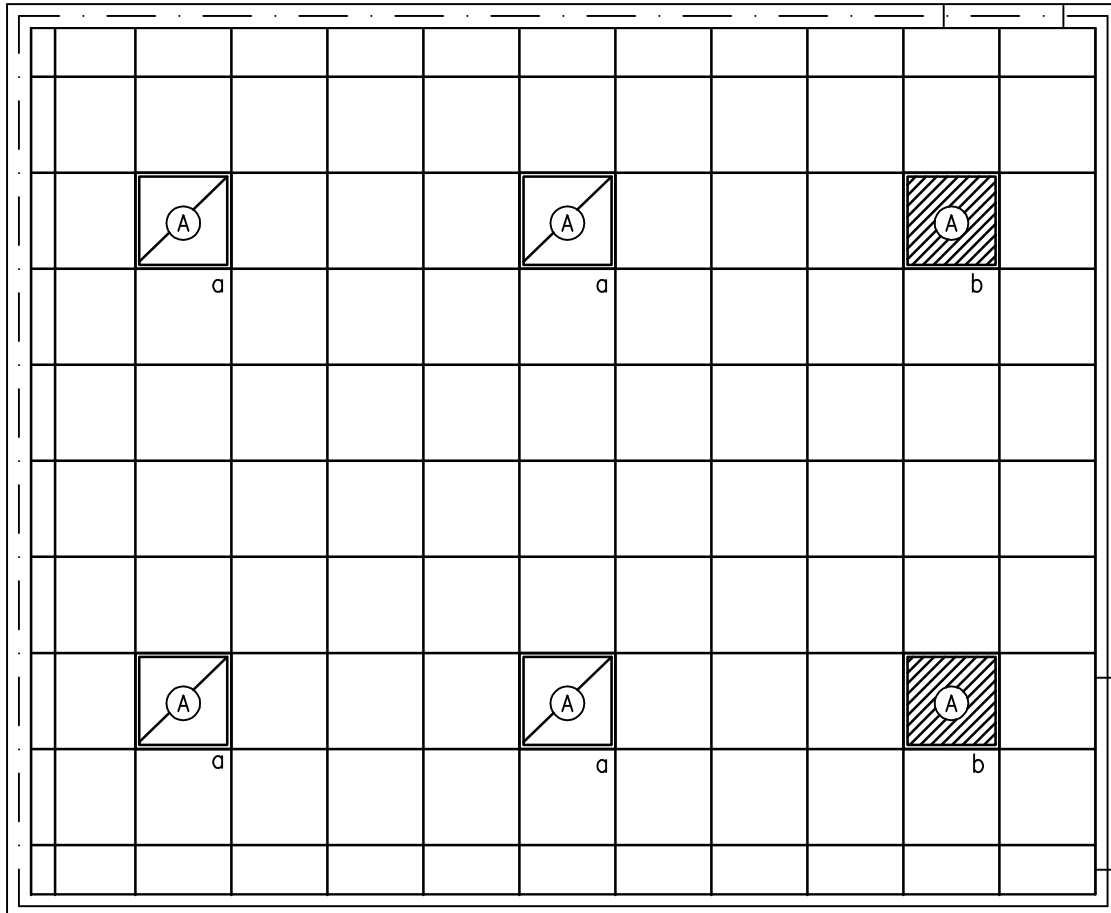
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/PROVIDER.

400 NSF/ 37.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: CT Scanning Room (XCTS1) Reflected Ceiling Plan



400 NSF/ 37.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: CT Scanning Room (XCTS1)

Design Standards

ARCHITECTURAL

Ceiling: AT
 Ceiling Height: 9'-6" (2900 mm)
 Wall Finish: GWB-P
 Wainscot: --
 Base: RB
 Floor Finish: VCT
 Slab Depression: --
 Notes: 1) See PG-18-10, Design Manual for X-ray Radiation Shielding and Special Control.

SPECIAL EQUIPMENT

--

LIGHTING

General: --
 Special: --
 Notes: 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum). Down light illumination level for center lamp of non-emergency fixtures controlled by dimmer.
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
 5) X-ray on warning light with fluorescent lamp.

POWER

General: As Shown
 Emergency: As Shown
 Notes: 1) The electrical plan is a planning guide only. Final installation shall be coordinated with vendor's installation drawings.
 2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

POWER (Cont'd)

- 3) Flush floor duct with screw-on cover. Connect to x-ray wall duct. Duct sizes shall meet manufacturer requirements.
- 4) Run 1/2" (25 mm) C. from door switch to junction box at x-ray controller. Connect door switch so that if door is opened the x-ray system will be shut off.

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: Yes
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: 1) Junction box for CCTV camera with conduit to adjacent control room.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
 30 Percent to 50 Percent Relative Humidity
 For Gantry, Provide 45 Percent Relative Humidity in Winter
 Minimum Air Changes per Hour: 6
 100% Exhaust: No
 100% Outside Air: No
 Room Air Balance: Positive (+)
 Dedicated Exhaust System: No
 Occupancy: 4
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: 1) Verify cooling loads and other specific requirements with the equipment manufacturer.
 2) Provide domestic cold water backup to gantry chiller when required.
 3) Year around conditions.



Radiology: CT Scanning Room (XCTS1) – Cont'd

Design Standards

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Radiology: CT Scanning Room (XCTS1)

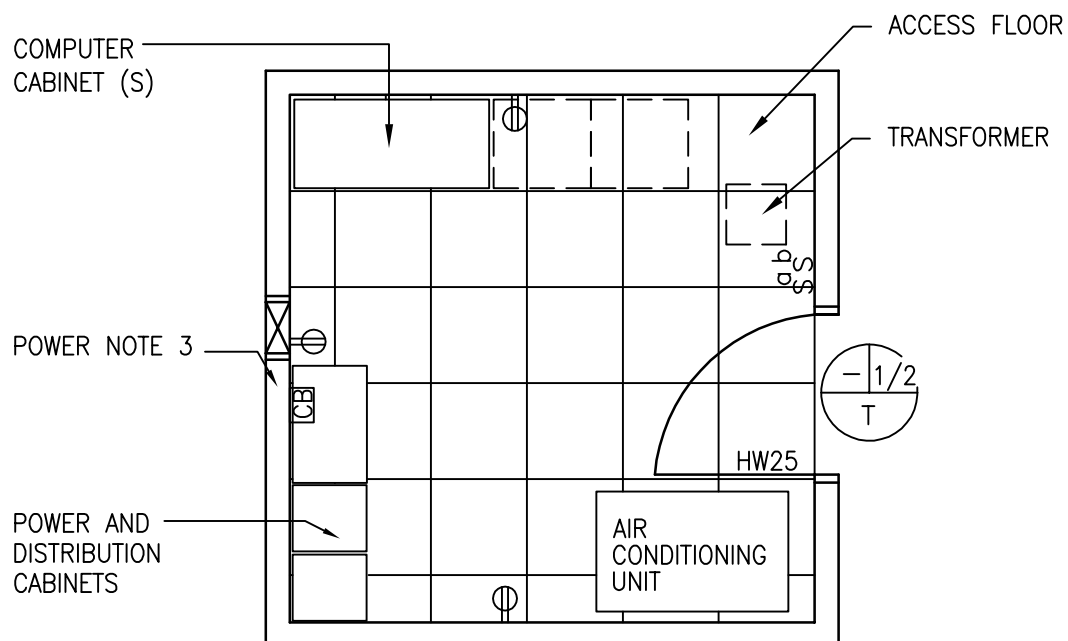
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Low level dimmed fluorescent lighting system in addition to general fluorescent illumination system (PG-18-1, MCS 26 51 00)
				Note: Gas outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 49)
E0210		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 or 12 36 00)
	J-2	1	CC	Sink, corrosion resisting steel, with center drain outlet, 18" x 15" x 8" (450 mm x 380 mm x 200 mm) (PG-18-1 & PG-18-6, MCS 12 36 00)
		1	CC	Window, lead glass (PG-18-1, MCS 13 49 00)
		1	CC	Outlet, CCTV, with conduit to control room (PG-18-1, MCS 27 05 33)
		1	CC	X-ray warning light
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
X6240		1	VC	Radiographic unit, computerized tomography (CT) including gantry and mounting frame; table, patient and mounting frame
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		1	VV	Hook, coat, wall mounted
X3150		1	VV	Rack, glove/apron, wall mounted
F2017		1	VV	Receptacle, waste, step-on type approx. 12" (300 mm) diameter
A5106		1	VV	Glove dispenser, wall mounted
A5106		1	VV	Sharps container, wall mounted



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Radiology: CT Computer Power and Equipment Room (XCTC1) Floor Plan



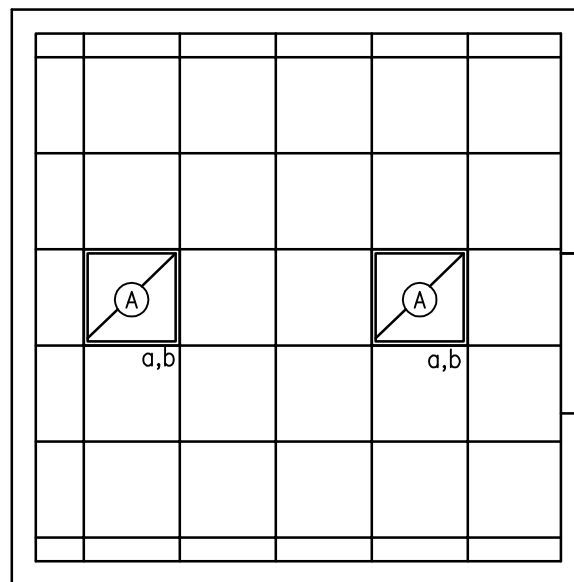
120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

radiology: CT Computer Power and Equipment Room (XCTC1)
Reflected Ceiling Plan



120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: CT Computer Power and Equipment Room (XCTC1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	AF
Slab Depression:	4" (100 mm)
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--

- Notes:
- 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).
 - The foot-candle level is average maintained.
 - Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown

- Notes:
- The electrical plan is a planning guide only. Final design and installation shall be coordinated with vendor's installation drawings.
 - Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.
 - 480V, 3P, adjustable trip flush mounted circuit breaker with shunt trip. Run empty 2' (600 mm) C. from circuit breaker to x-ray duct above finished ceiling.

POWER (Cont'd)

- Flush floor duct with screw-on cover. Connect to x-ray wall duct. Duct size shall comply with manufacturer requirements.
- Provide separate power feeds to air conditioning unit, power distribution and conditioning cabinets, and computer cabinet. Coordinate power and design requirements with equipment manufacturer.
- Each clinic shall determine, based on their operational needs, which radiology service equipment is on emergency power.

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> Verify cooling loads and other specific requirements with the equipment manufacturer. Provide split system computer room unit sized in consultation with computer equipment manufacturer.



Radiology: CT Computer Power and Equipment Room (XCTC1)

Design Standards

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



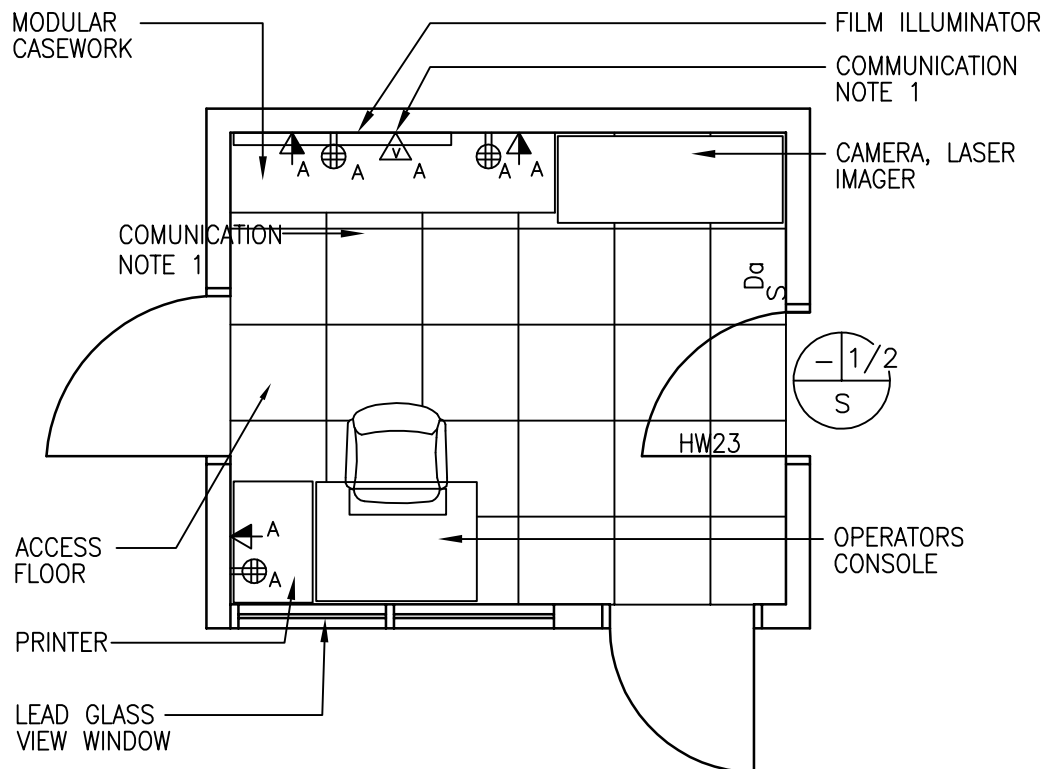
Radiology: CT Computer Power and Equipment Room (XCTC1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		AR	VC	Air conditioning unit
		AR	VC	Computer cabinet, auxiliary
		AR	VC	Computer cabinet, main
		1	VC	Power cabinet
		1	VC	Power line protector
		1	VC	Transformer, high voltage
		1	VC	Unit, power distribution

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Radiology: CT Control Room (XCTC1) Floor Plan



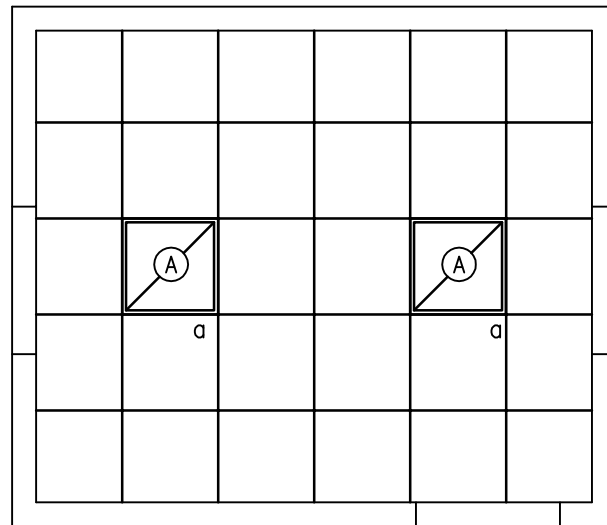
120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: CT Control Room (XCTC1) Reflected Ceiling Plan



120 NSF/ 11.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: CT Control Room (XCTC1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	AF
Slab Depression:	4" (100 mm)
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--

- Notes:
- 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).
 - 2) Center lamps are controlled by dimmer.
 - 3) The foot-candle level is average maintained.
 - 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown

- Notes:
- 1) The electrical plan is a planning guide only. Final installation shall be coordinated with vendor's installation drawings.
 - 2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	Yes
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Junction box for CCTV monitor.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Radiology: CT Control Room (XCTC1)

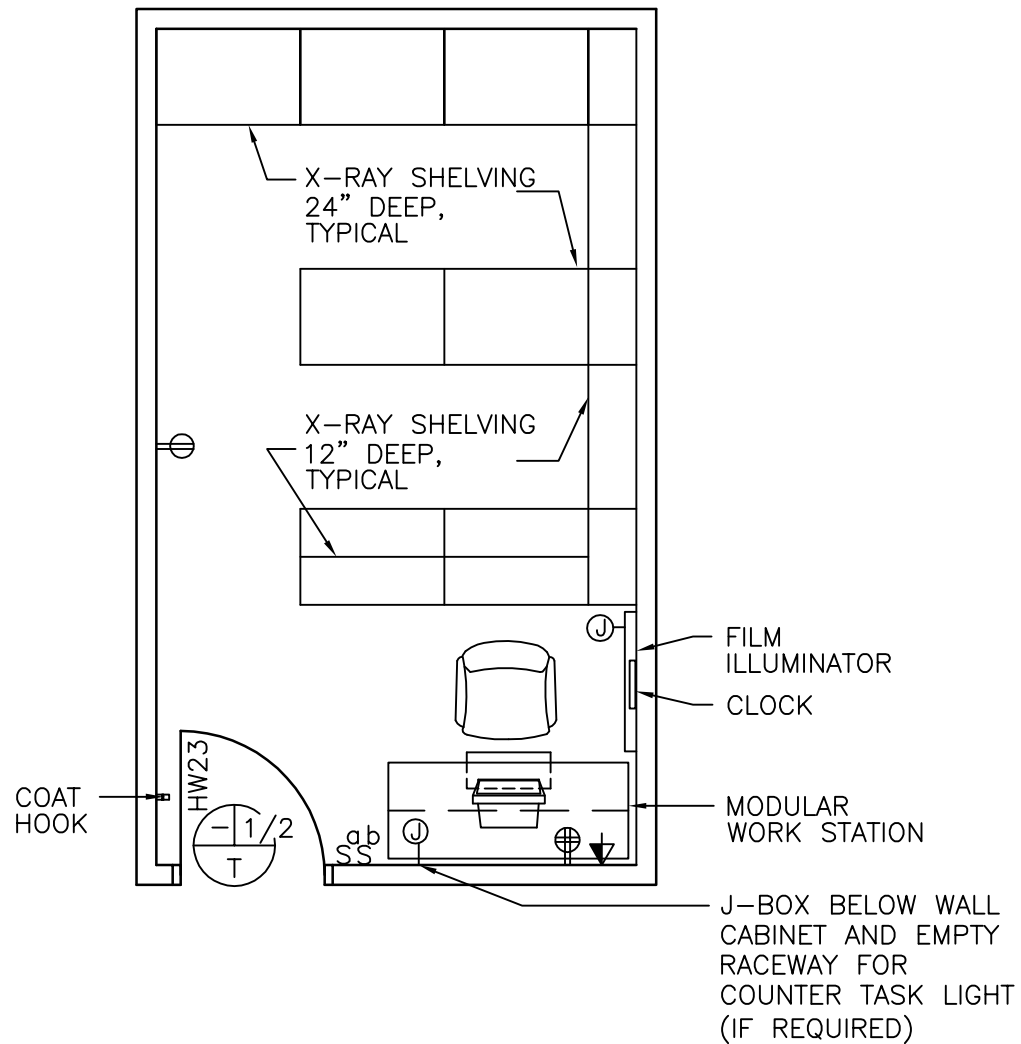
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Fluorescent, dimming system (PG-18-1, MCS 26 51 00)
		1	CC	Outlet, monitor, closed circuit television (empty conduit system) (PG-18-1, MCS 27 05 33)
		1	CC	Window, lead glass, 55" x 48" (1375 mm x 1200 mm) (PG-18-1, MCS 13 49 00)
A6105		AR	CC	Modular casework base cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 and 12 36 00)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical quadruplex (PG-18-1, MCS 26 27 26)
		1	VC	Console, operators, for scanner table and gantry (capacity of generator to be determined on project basis)
M1825		AR	VC	Printer, line
X1425		1	VV	Camera, laser, imager, approx. 51" x 26" x 47" (1275 mm x 650 mm x 1175 mm)
F0275		1	VV	Chair, operator's
X3930		1	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 30" (500 mm x 750 mm), 2 in 1



Radiology: Film Library (XFFA1)

Floor Plan



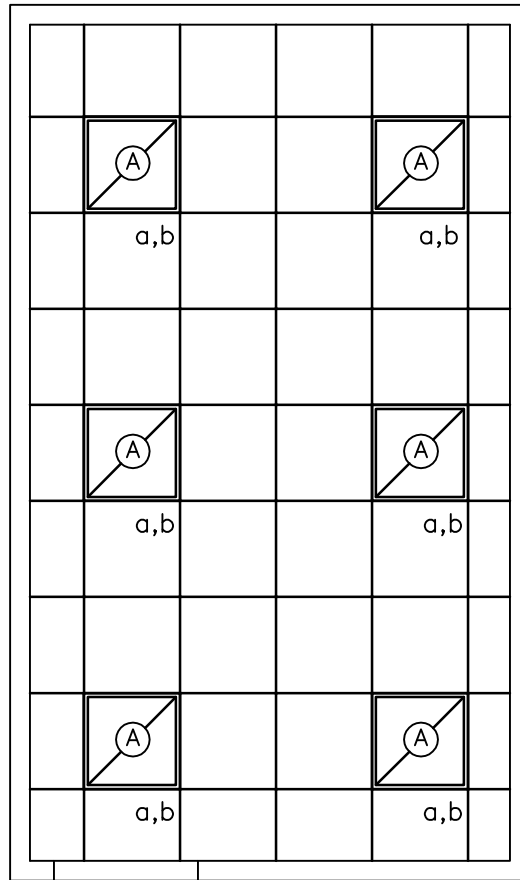
175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Radiology: Film Library (XFFA1)
Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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Radiology: Film Library (XFFA1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	--
Notes:	1) Full height partitions around perimeter.

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	--
Notes:	1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture with 3500°K lamps and color rendering index not less than 70.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	40 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Radiology: Film Library (XFFA1)

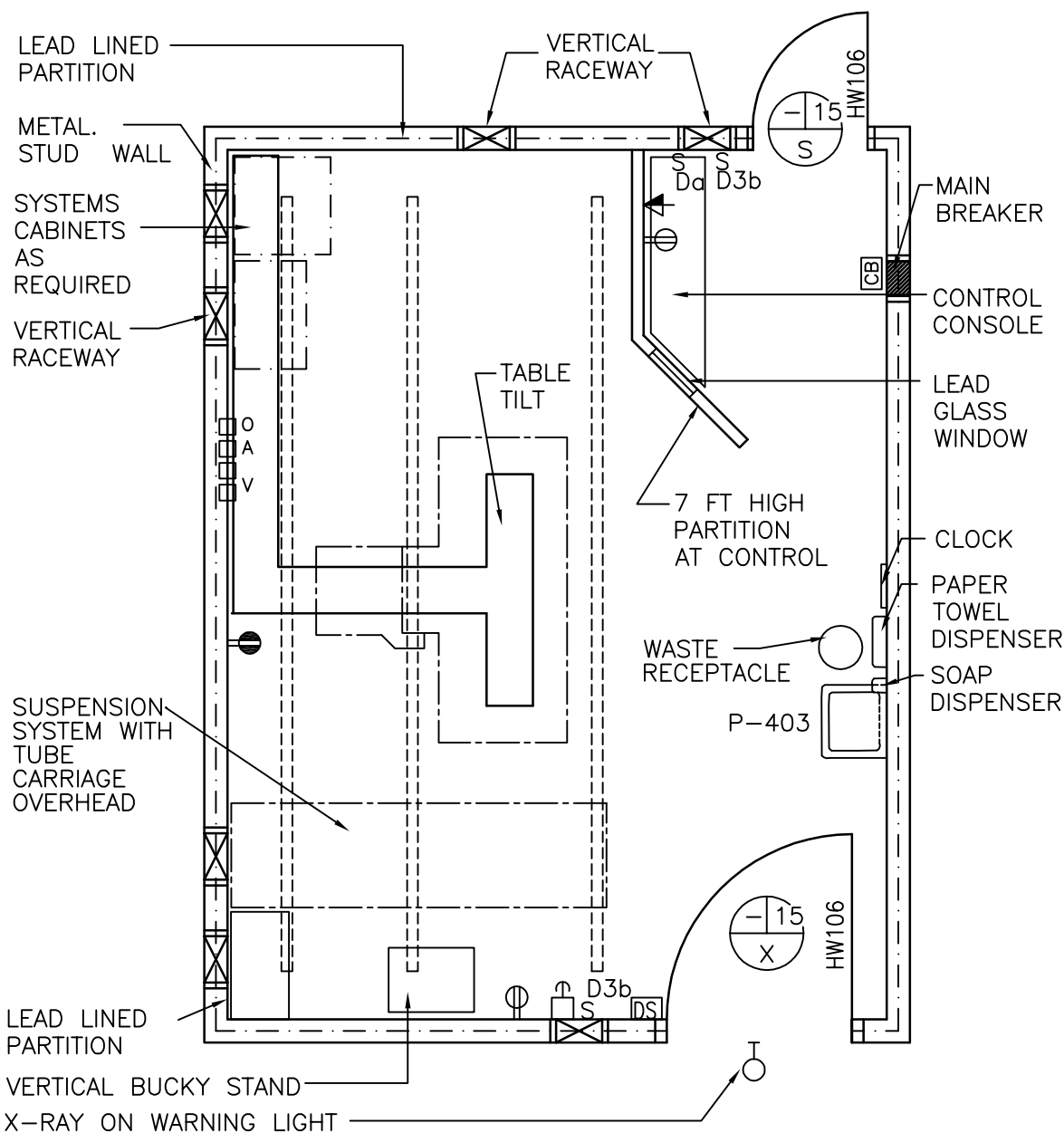
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
X1170		AR	CC	Shelving, floor standing, steel, x-ray film filing 36" W x 24" D x 90" H (900 mm W x 600 mm D x 2250 mm H) with movable dividers (PG-18-1, MCS 12 31 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
M1801		1	CC	PC, computer system, with keyboard
X1170		AR	CC	Shelving, floor standing, steel, 36" W x 12-1/2" D x 87" H (900 mm W x 325 mm D x 2175 mm H), with movable dividers 11-1/2" x 7-1/4" (300 mm x 175 mm) (PG-18-1, MCS 12 31 00)
F3200		1	VV	Clock, atomic, battery operated
F0205		AR	VV	Chair, rotary, with arms
A5145		1	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volt, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" x 20" (775 mm x 500 mm)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.



Radiology: General Purpose Room (XDRO1)

Floor Plan



SEE ALSO PG-18-4, SD 13 49 00-3 LAYOUT AND NCS SD 13 49 00-4 FOR RACEWAY LAYOUT FOR DOD/VA UNIVERSAL X-RAY ROOM

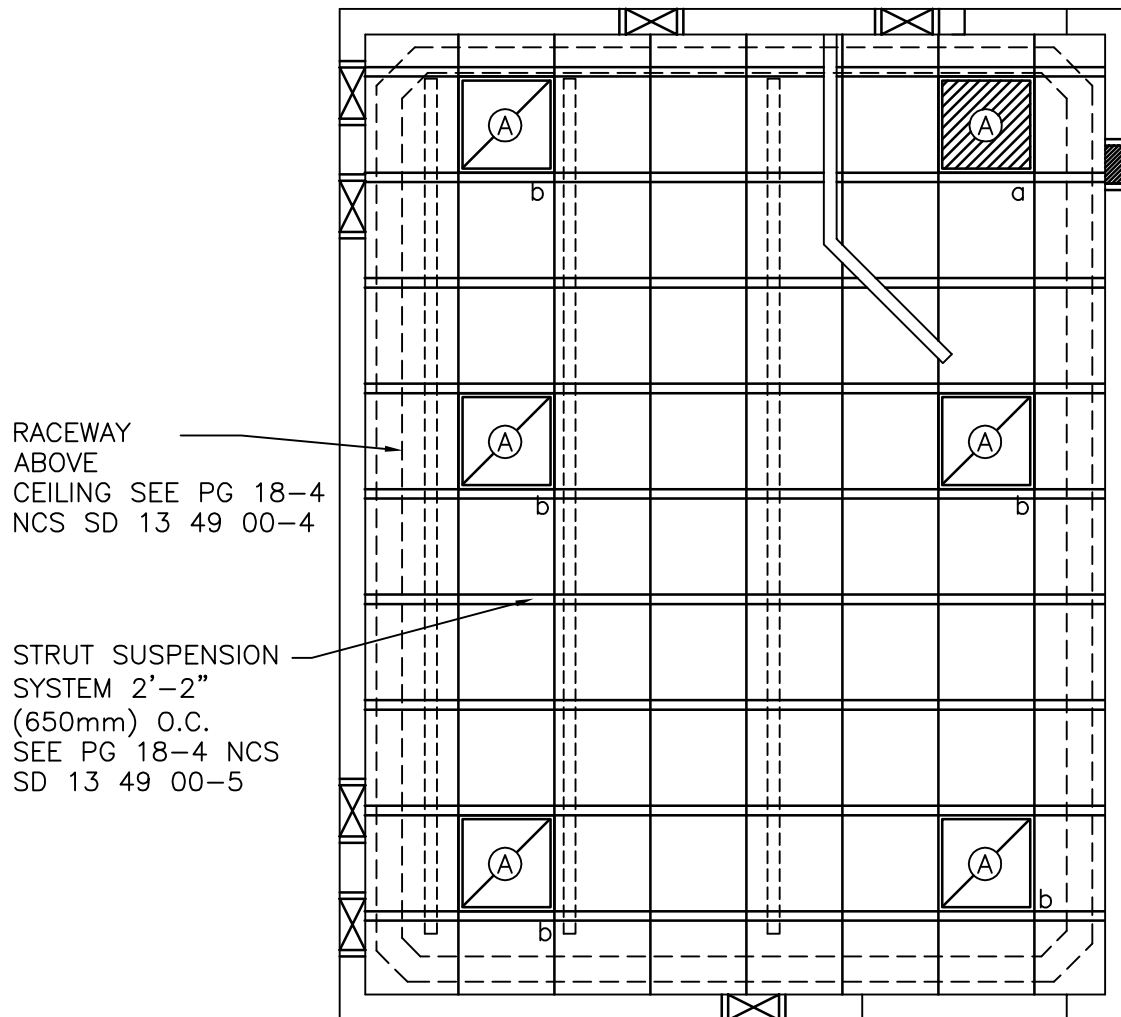
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

300 NSF/ 27.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: General Purpose Room (XDRO1) Reflected Ceiling Plan



300 NSF/ 27.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: General Purpose Room (XDRO1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--

Notes: 1) 4'-0" (1200 mm) lead lined entry door. See PG-18-10 Design Manual for Radiation shielding and special control room requirements.

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	Dimming

- Notes: 1) 2' x 2' (600 mm x 600 mm) fluorescent fixture, acrylic prismatic lens top and bottom w/ T8 lamps, 3500°K (minimum), CRI=70 (minimum). The center lamp of non-emergency fixtures is controlled by dimmer switch.
- 2) Fluorescent x-ray on warning light fixture.
- 3) The foot-candle level is average maintained.
- 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown

- Notes: 1) The electric plan is a planning guide only. Refer to VA/DOD universal room layout (PG-18-4, NCS SD 13 49 00). Final installation shall be coordinated with vendor's installation drawings.
- 2) Refer to PG-18-4, NCS SD 13 49 00-4 for typical above ceiling raceway system.

POWER (Cont'd)

- 3) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	40 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes: 1) Verify cooling loads and other specific requirements with the equipment.	
2) Year around conditions.	

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



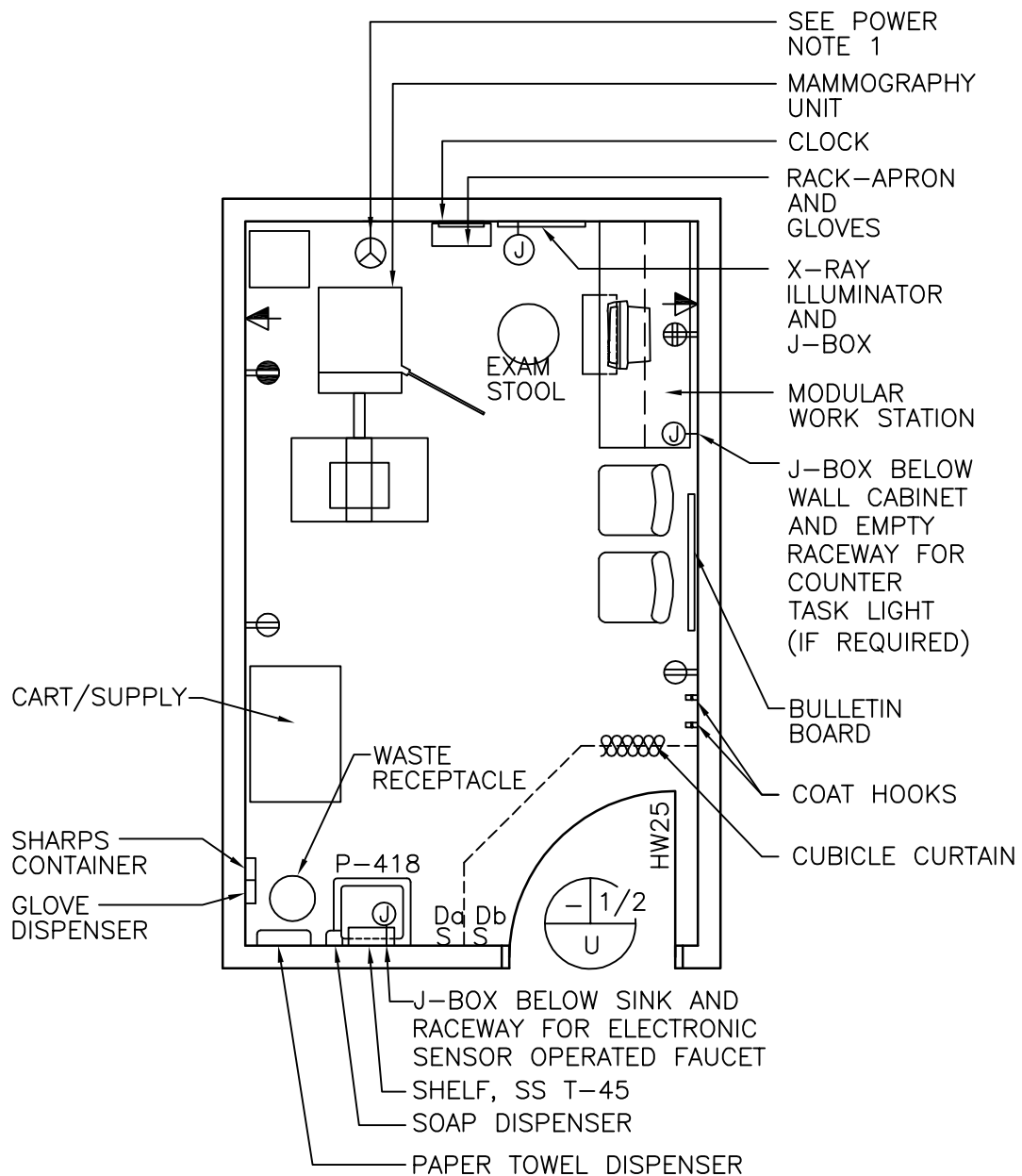
Radiology: General Purpose Room (XDRO1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 36)
P3100	P-403	1	CC	Lavatory, straight back, foot pedal control (PG-18-1, MCS 22 40 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		1	CC	Window, viewing lead glass, for patient observation (PG-18-1, MCS 13 49 00)
		1	CC	X-ray warning light
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00) Note: Outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
X5900		1	VC	Radiographic unit – including the following components as required: Starter, tube, high speed Module, power Transformer, high tension, x-ray Table, radiographic, flat bucky or Table, tilt, 90 degree vertical, 15 degree trendelenburg Table, flat, modified with tray for multi-cassettes for body sectional technique (provide only when approved for a specific project) Tube carriage, ceiling mounted Rails, ceiling for tube carriage, universal mount Attachment, body section (provide when approved for a specific project) Bucky, tilt, wall mounted Control, attachment, body section (provide only when approved for a specific project) Headstand, radiographic Changer, cassette Console, control, x-ray, for radiographic unit
				Note: Optional components to be determined by Veterans Health Administration.
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx., 12" (300 mm) diameter, provide only when approved for a specific project (oxygen, air, vacuum outlet and bracket)



Radiology: Mammography Room (XDM01) Floor Plan



NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

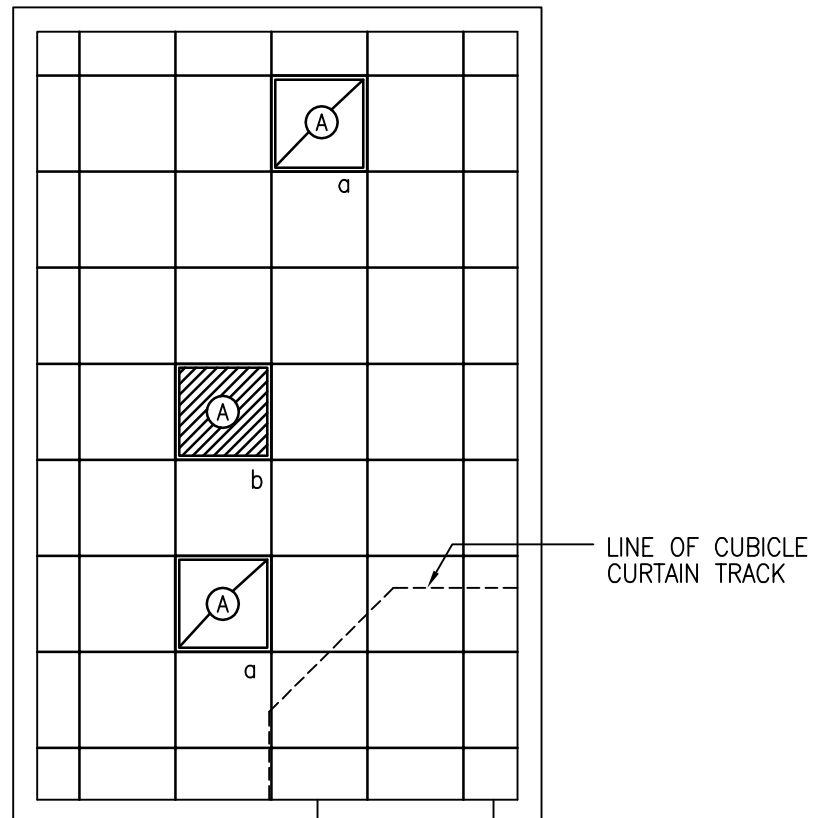
160 NSF/ 14.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Mammography Room (XDM01) Reflected Ceiling Plan



160 NSF/ 14.9 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Mammography Room (XDM01)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	3'-8" (1100 mm) wide door

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--

- Notes:
- 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70. Center lamp of non-emergency fixture controlled by dimmer switch.
 - 2) The foot-candle level is average maintained.
 - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown

- Notes:
- 1) Mammography unit receptacle light fixture above unit and x-ray illuminator shall be on emergency power.
 - 2) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Verify cooling loads and other specific requirements with equipment manufacturer.
	2) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Radiology: Mammography Room (XDM01)

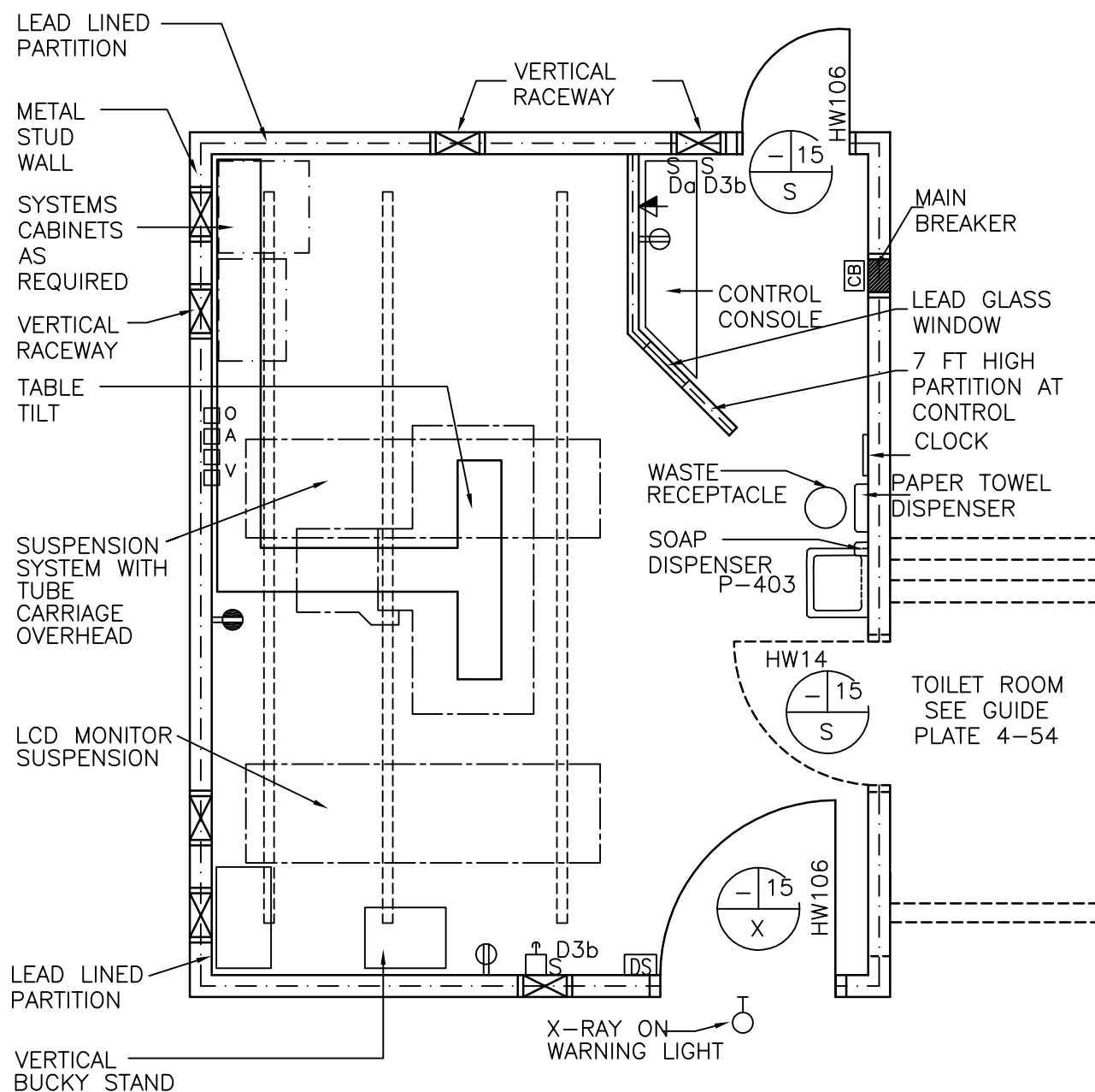
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling mounted (PG-18-1, MCS 10 21 23)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
X3150		1	CC	Rack, glove/apron, wall mounted
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
X5430		1	VC	Unit, mammography with chair
F3010 or F3025		1	VV	Bulletin board, 36" x 24" (900 mm x 600 mm)
F0205		2	VV	Chairs, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system, with keyboard
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		2	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
X3930		1	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 31" (500 mm x 775 mm), 2 in 1
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
		1	VV	Stool, examining, adjustable
F0525		1	VV	Cart, supply, mobile 29" W x 20" D (740 mm W x 500 mm D)



Radiology: Radiographic/ Fluoroscopic Room with Control (XDRF1)

Floor Plan



SEE ALSO PG-18-4, SD 13 49 00-3 LAYOUT AND NCS SD 13 49 00-4 FOR RACEWAY LAYOUT FOR DOD/VA UNIVERSAL X-RAY ROOM

NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

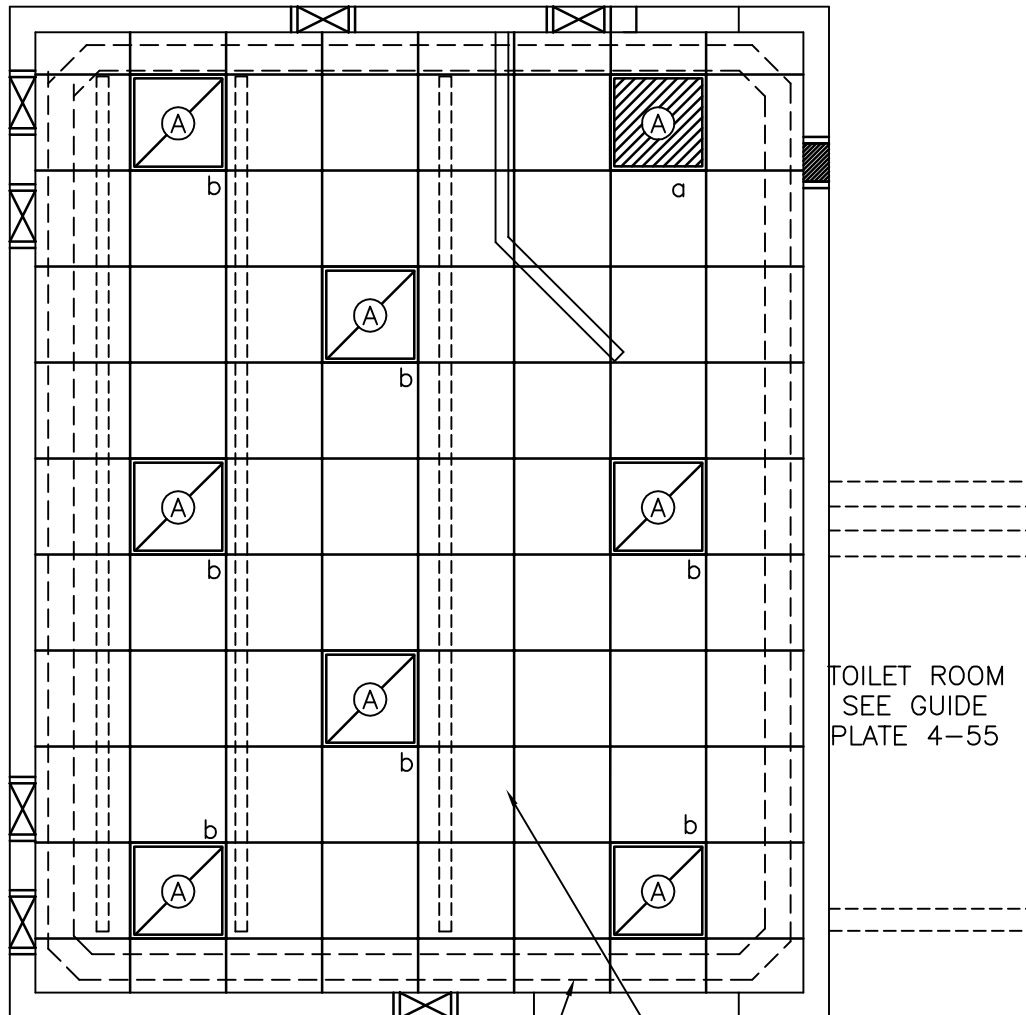
320 NSF/ 29.8 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Radiographic/ Fluoroscopic Room with Control (XDRF1) Reflected Ceiling Plan



RACEWAY ABOVE CEILING SEE
PG 18-4 NCS SD 13 49 00-4

STRUT SUSPENSION SYSTEM 2'-2" (650mm)
O.C. SEE PG 18-4 NCS SD 13 49 00-5

320 NSF/ 29.8 NSM

SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Radiographic / Fluoroscopic Room with Control (XDRF1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
	Toilet: 9'-0" (2700 mm)
Wall Finish:	GWB-P
	CT 48" (1200 mm) in Toilet
Wainscot:	--
Base:	RB
	CT in Toilet
Floor Finish:	VCT
	CT in Toilet
Slab Depression:	4" (100 mm) in R/F room
Notes:	1) 4'-0" (1200 mm) wide door into R/F room. See PG-18-10 Design Manual for X-Ray Radiation Shielding and Special Control Room Requirements.

SPECIAL EQUIPMENT

LIGHTING

General:	--
Special:	--
Notes:	1) Fluorescent 2' x 2' (600 mm x 600 mm) fixture, acrylic prismatic lens w/ T8 lamps, 3500° K (minimum), CRI=70 (minimum). Center lamp of non-emergency fixtures is controlled by dimmer switch.
	2) Fluorescent x-ray on fixture.
	3) The foot-candle level is average maintained.
	4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Notes:	1) The electric plan is a planning guide only. Refer to VA/DOD universal room layout (PG-18-4, NCS, SD 13 49 00-3). Final installation shall be coordinated with vendor's installation drawings.

POWER (Cont'd)

- 2) Refer to PG-18-4 NCS SD 13 49 00-4 for typical above ceiling raceways.
- 3) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Nurse call in toilet room to annunciate at reception desk.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	40 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6 for R/F Room
	10 for Toilet Exhaust
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.



Radiology: Radiographic / Fluoroscopic Room with Control (XDRF1)- Cont'd

Design Standards**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Radiology: Radiographic Fluoroscopic Room With Control (XDRF1)

Equipment List

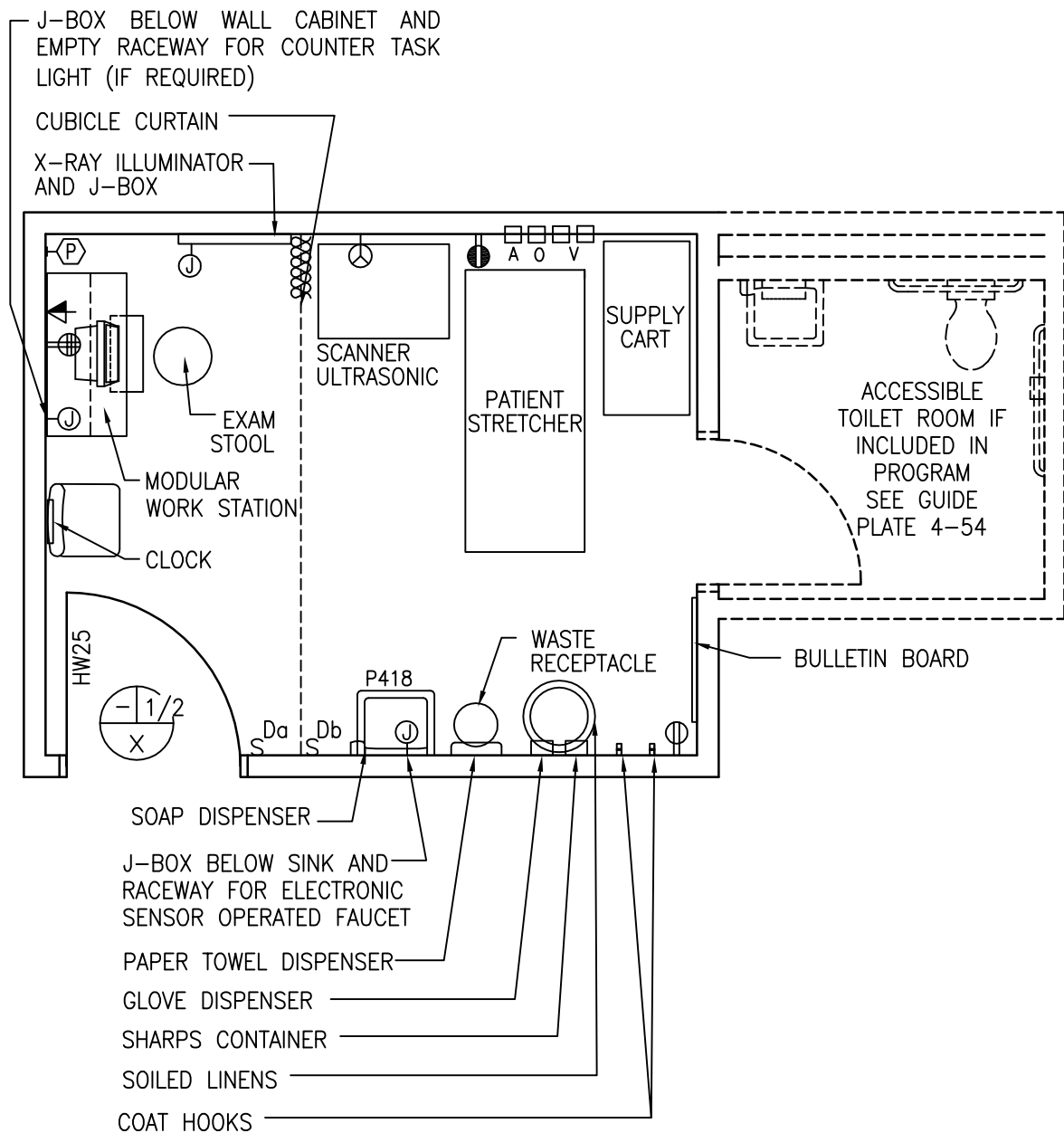
JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 36)
P3100	P-403	1	CC	Lavatory, straight back pedal control (PG-18-1, MCS 22 40 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		1	CC	Window, viewing lead glass, for patient observation (PG-18-1, MCS 13 49 00)
		1	CC	X-ray warning light
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00) Note: Outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
X6185		1	VC	Radio/fluoro unit – including the following components as required: Bucky, tilt, wall mounted Console, control, x-ray, for radiographic unit Rails, ceiling for tube carriage, universal mount Recorder, TV tape Starter, tube, high speed Suspension system LCD monitor Table, 90 degree – 15 degree trendelenburg R&F, with spot film device (two-way or four-way table top and size of spot film device to be determined on project basis) Table, tilt, 90 degree – 900 degree R&F, with spot film device (two-way or four-way table top and size of spot film device to be determined on project basis) Transformer, high tension, x-ray Tube carriage, ceiling mounted
				Note: Optional components to be determined by Veterans Health Administration.
A5080		1	VV	Dispenser, paper towel, surface mounted
F3200		1	VV	Clock, atomic, battery operated
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter, provide only when approved for a specific project (oxygen, air, vacuum outlet and bracket)



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Radiology: Ultrasound Room (XDUS1)

Floor Plan



180 NSF/ 16.8 NSM

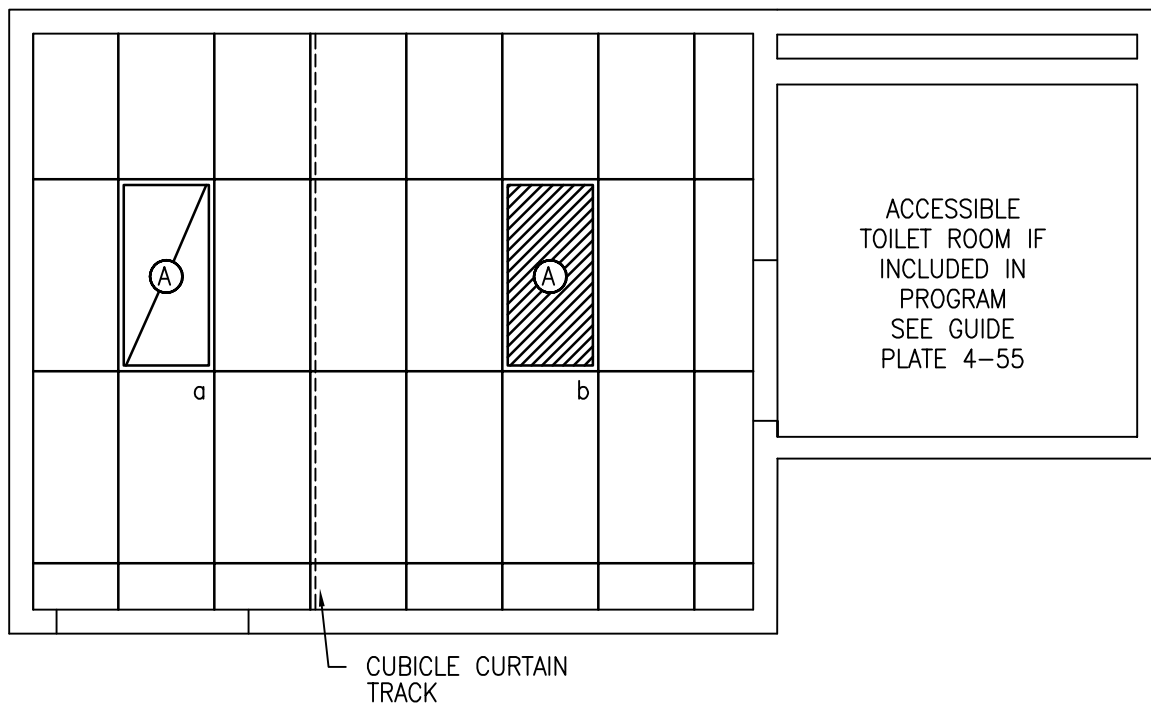
Toilet add: 55 NSF/ 4.6 NSM

SCALE $\frac{1}{4}$ " = 1'-0"



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Ultrasound Room (XDUS1) Reflected Ceiling Plan



180 NSF/ 16.8 NSM

Toilet add: 55 NSF/ 4.6 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Radiology: Ultrasound Room (XDUS1)

Design Standards

ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) Patient toilet, see Guide Plate 4-250.

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Notes:	1) Coordinate location and height of work station receptacles with modular furniture.
	2) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	Toilet
100% Outside Air:	No
Room Air Balance:	Positive (+) Ultrasound Negative (-) Toilet
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Radiology: Ultrasound Room (XDUS1)

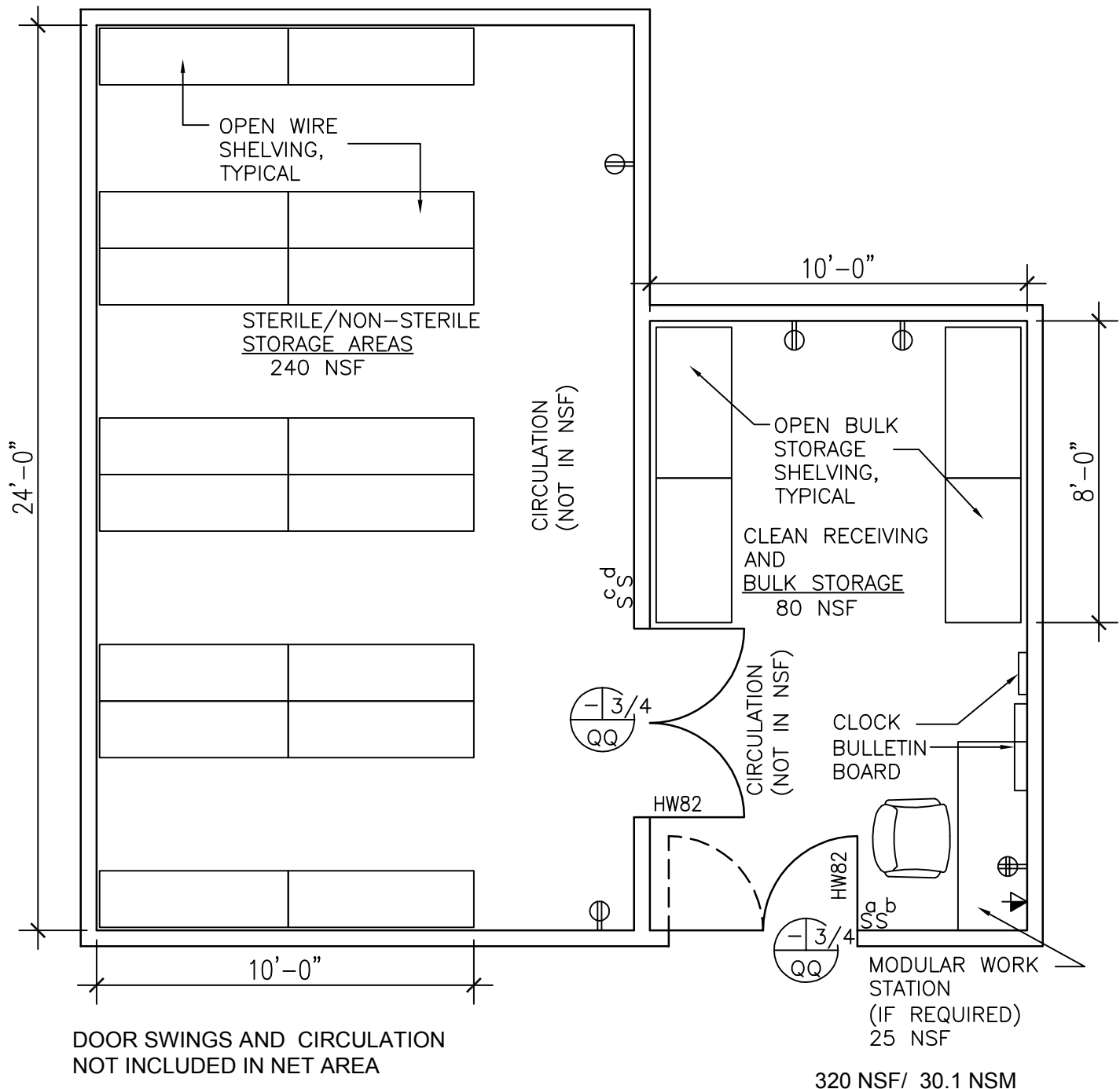
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle (PG-18-1, MCS 10 21 23)
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Low level fluorescent dimmed lighting system in addition to general fluorescent illumination system (PG-18-1, MCS 26 51 00)
				Note: Gas outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
E0210		AR	CC	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-1-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A4555		AR	VV	Stretcher, recovery approx. 30" x 80" (750 mm x 2000 mm)
F3010 or F3025		1	VV	Bulletin board, 36" x 24" (900 mm x 600 mm)
F0500		AR	VV	Cart, supplies, 24" x 48" (600 mm x 1200 mm)
F0210		AR	VV	Chair, rotary, without arms
F0340		1	VV	Stool, examining, adjustable
A5080		1	VV	Dispenser, paper towel, surface mounted
M1801		1	VV	PC, computer system, with keyboard
M3070		AR	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
X3930		AR	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 59" (500 mm x 1475 mm), 4 in 1
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
X2100		AR	VV	Scanner, ultrasonic, mobile
A5180		AR	VV	Curtain, cubicle
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Glove dispenser, wall mounted
A5106		1	VV	Sharps container, wall mounted



SPD: Basic Service

Floor Plan

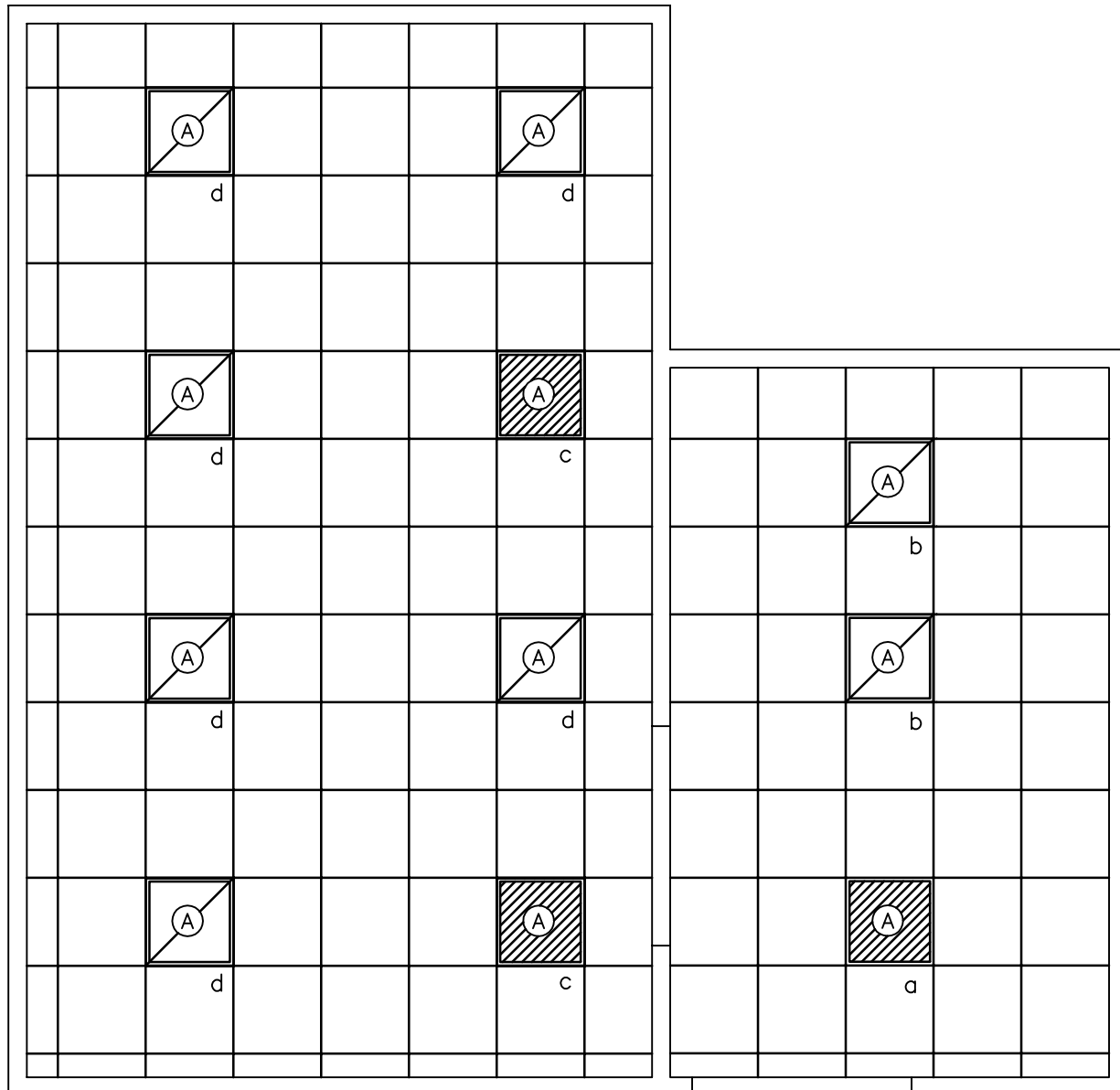


SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

SPD: Basic Service
Reflected Ceiling Plan



320 NSF/ 30.1 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

SPD: Basic Service

Design Standards

ARCHITECTURAL

Ceiling: AT (SP)
 Ceiling Height: 9'-0" (2700 mm)
 Wall Finish: GWB-SC/PL-SC
 Wainscot: --
 Base: CT/QT
 Floor Finish: CT/QT (Non-slip)
 Slab Depression: QT 2" (50 mm) if without
 floor drain, PG-18-3, Topic 6

Notes: --

SPECIAL EQUIPMENT**LIGHTING**

General: --

Special: --

- Notes: 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps 3500°K, CRI=70 (minimum).
 2) The foot-candle level is average maintained.
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General: As Shown

Emergency: As Shown

- Notes: 1) Coordinate location and height of work station receptacles with modular furniture.

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes

Telephone: Yes

Intercom: --

Nurse Call: --

Public Address: --

Radio/Entertainment: --

MATV: --

CCTV: --

MID: --

Security/Duress: --

VTEL: --

VA Satellite TV: --

- Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 73°F (23°C) Cooling

68°F (20°C) Heating

Dry-Bulb Temperature

55 Percent Cooling

35 Percent Heating

Relative Humidity

Minimum Air Changes per Hour: 10

100% Exhaust: Yes

100% Outside Air: Yes

Room Air Balance: Positive (+)

Dedicated Exhaust System: Yes

Occupancy: 4

AC Load-(Equipment): As Required

AC Load-(Light): As Required

Notes: --

PLUMBING AND MEDICAL GASES

Cold Water: --

Hot Water: --

Laboratory Air: --

Laboratory Vacuum: --

Sanitary Drain: --

Reagent Grade Water: --

Medical Air: --

Medical Vacuum: --

Oxygen: --

Notes: --



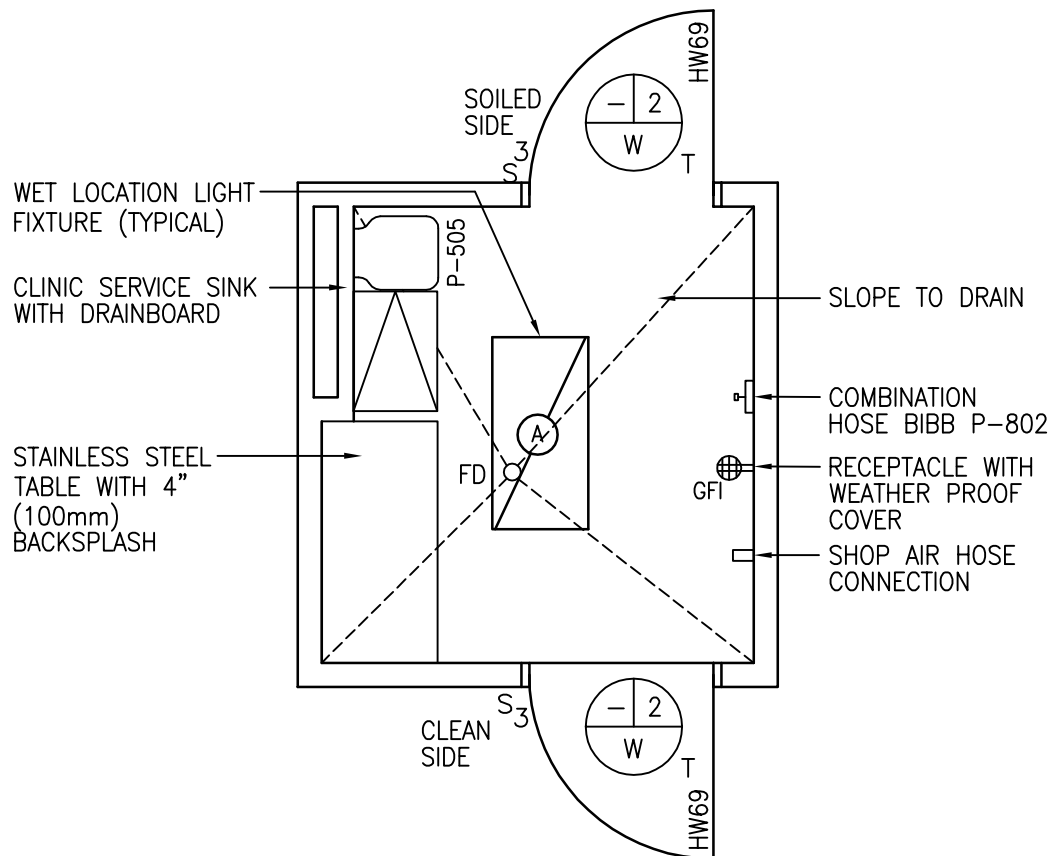
SPD: Basic Service

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical quadruplex (PG-18-1, MCS 26 27 26)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F3200		1	VV	Clock, atomic, battery operated
F0205		1	VV	Chair, rotary, with arms
M2050		AR	VV	Shelving, storage, mobile, steel rod shelf, open style with 5 adjustable shelves
F3010 or F3025		1	VV	Bulletin board, 40" x 30" (1000 mm x 750 mm)



SPD: Manual Equipment Wash Area (CWSH1) Floor Plan & RCP



80 NSF/ 7.4 NSM

SCALE $\frac{1}{4}" = 1'-0"$



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SPD: Manual Equipment Wash Area (CWSH1)

Design Standards

ARCHITECTURAL

Ceiling:	PCP-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	CT*
Wainscot:	--
Base:	CT/QT
Floor Finish:	CT/QT (Non-slip)
Slab Depression:	CT 3" (75 mm) / QT 4" (100 mm)

Notes: * Mount CT on Concrete Backer Board

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> 1) Surface mounted wet listed 2' x 4' (600 mm x 1200 mm) fluorescent light fixture, acrylic lens w/ F32T8 lamps, 3500°K, CRI=70 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Emergency:	As Shown
Note:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	10
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Other:	Shop Air
Notes:	--



SPD: Manual Equipment Wash Area (CWSH1)

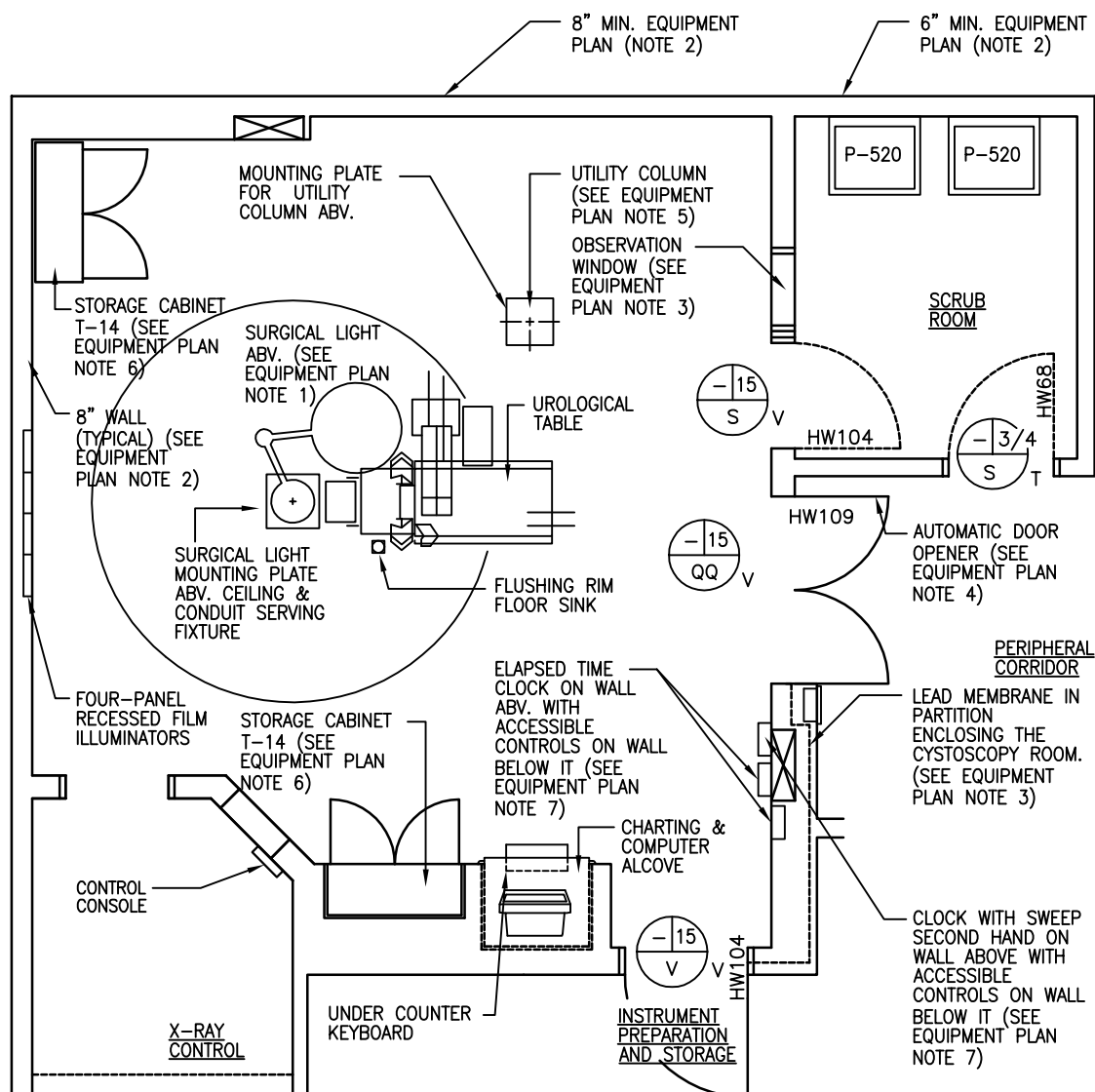
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
	P-802	1	CC	Hose bibb, combination faucet, wall mounted, concealed supply pipes (PG-18-1, MCS 22 40 00)
		1	CC	Connection, hose, shop air (PG-18-10; Plumbing Design Criteria and Instructions)
		1	CC	Drain, floor (PG-18-1, MCS 22 40 00)
P6500	P-505	1	CC	Sink, service, clinic, flushing rim, wall hung (PG-18-1, MCS 22 40 00)
		AR	CC	Receptacle, electrical quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
S9610		1	VV	Table, stainless steel, 29" W x 60" L (740 mm x 1520 mm), with 4" (100 mm) high backsplash



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Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)



450 NSF/ 41.8 NSM

SCALE $\frac{3}{16}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

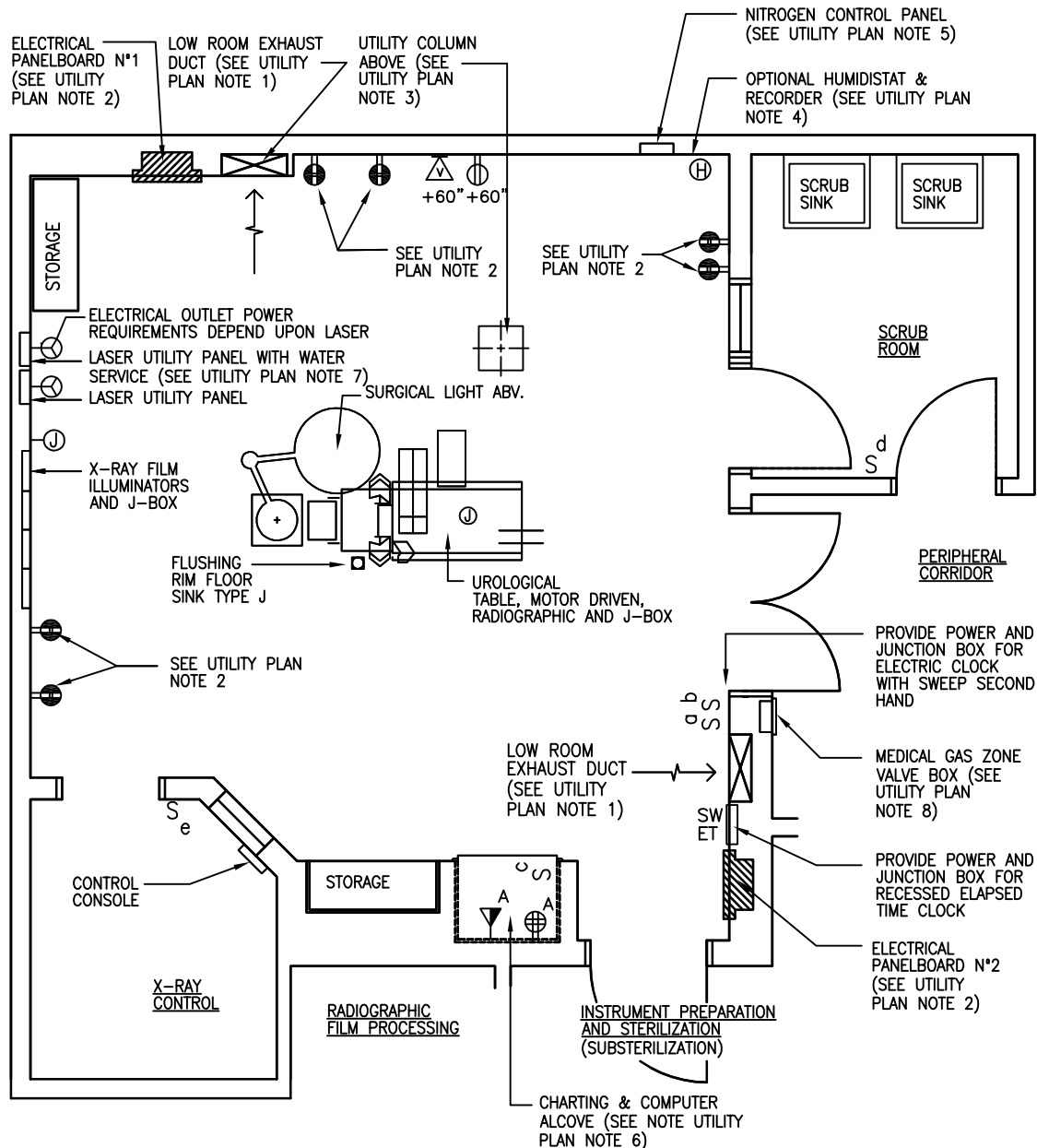
Equipment Plan Notes

Note 1	The surgical light fixtures are to be (CC) unless the VAMC chooses to select a specific surgical light fixture during the development of construction documents. If the VAMC chooses the fixtures, they may be either (CC), (CF), or (VC). All coordination in involving structural support, utility connections, and other details regarding these lights are the responsibility of the A/E.
Note 2	Nominal thickness of walls during design development should be shown as 8 inches (200 mm) thick by the A/E. This requirement is based upon the need to accommodate a variety of panel boards, return air ducts, and miscellaneous elements of construction that require a thicker partition than in other areas of a hospital building. Partitions other than the cystoscopy room enclosure should be shown nominally as 6 inches (150 mm) during design development by the A/E unless some special requirement dictates otherwise.
Note 3	Provide x-ray shielding consisting of a lead membrane in the partitions; lead lined door; and leaded glass observation windows. The exact location of that membrane and details related to it are the A/E's responsibility.
Note 4	An automatic door opener is to be provided in the corridor at the doors between the cystoscopy room and the semi-restricted (peripheral) corridor. A tread type of opener is permitted; however, a wall-mounted type of automatic door opener with a push-plate is preferred.
Note 5	The ceiling mounted utility column may be one of two (2) types: Articulating or retractable (telescoping). The VAMC must decide which type of utility column to use during the design development phase of the project. If a choice is made at this point, the utility columns may be (VV), (CF) or (CC). If the VAMC declines to make a timely decision, then the utility columns will be (CC). Coordination involving structural support, utility connections, and other details is the responsibility of the A/E.
Note 6	Modular equipment – the VAMC has the option of choosing modular equipment in lieu of built-in casework. However, this decision must be made during the design development phase of the procurement. If wall-mounted modular casework is selected by the VAMC, the A/E must design the partitions to support the casework. It should be noted that the standard studs found in the master specifications are insufficient to carry this added weight; therefore, the equipment manufacturer's recommendations for supporting partitions should be followed where appropriate.
Note 7	Clocks – for more information regarding clocks in operating room, see MCS, Section 27 52 41.
Note 8	See Chapter 286 of the Equipment Guide List for additional equipment not shown.



Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Utility Plan



450 NSF/ 41.8 NSM

SCALE $\frac{3}{16}$ " = 1'-0"



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Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

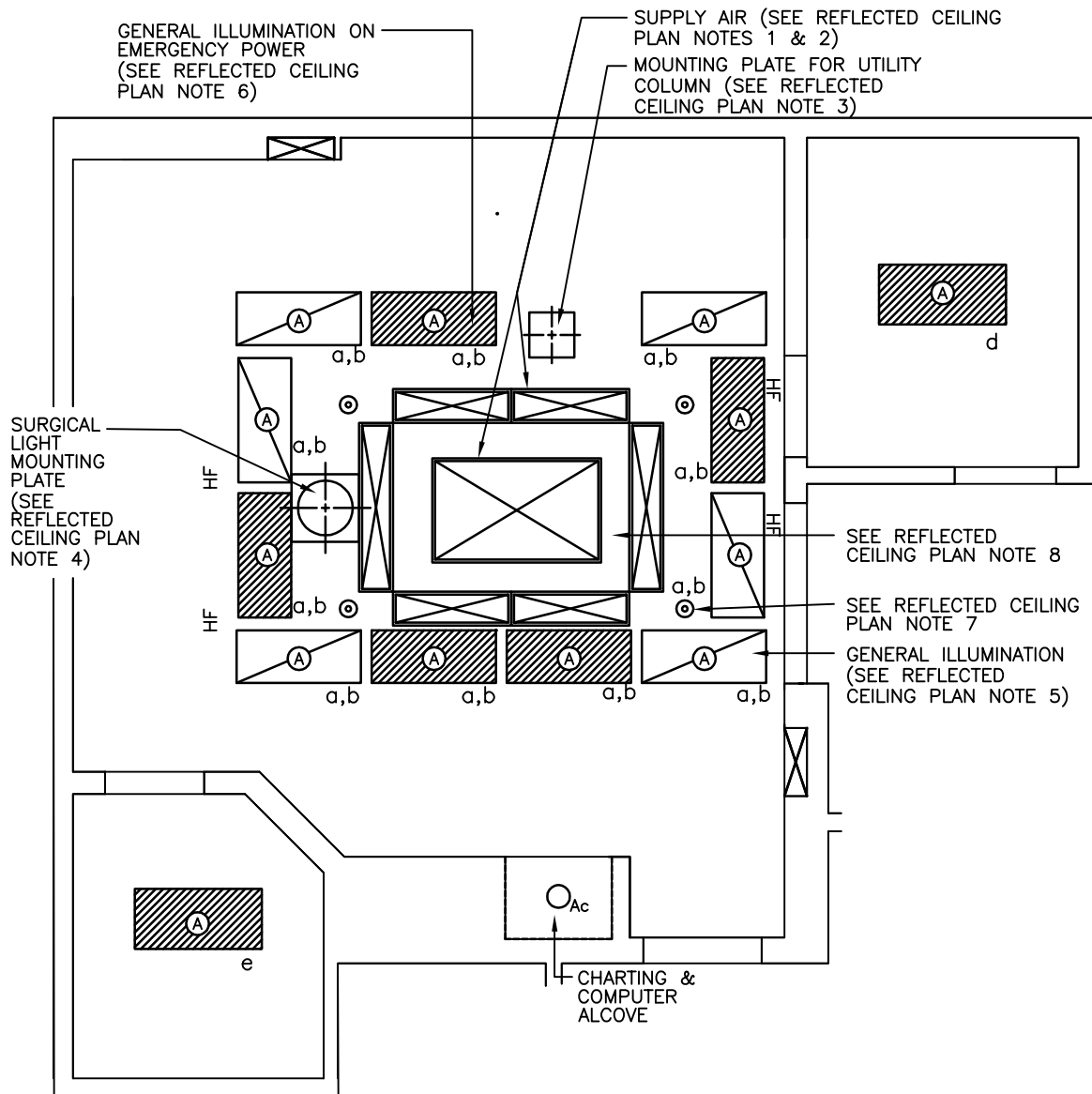
Utility Plan Notes

Note 1	Exhaust air grilles – provide a minimum of two exhaust air grilles in this operating room. If only two (2) grilles are provided, locate them opposite each other. Where there are more than two (2) exhaust grilles, they are to be centered on each of the walls of the operating room. The bottom of each exhaust air grille is to be 7 inches (175 mm) above the finished floor. See the HVAC Design Manual for additional information.
Note 2	Two (2) critical power emergency panels fed from different distribution panels and transfer switches. Alternate receptacle circuiting between the two (2) panels.
Note 3	Retractable utility column provides connections on utility column as delineated in Chapter 286, Equipment Guide List.
Note 4	HVAC controllers – Track and record the space temperature and relative humidity by DDC Controls – on hourly basis by the DDC space temperature and relative humidity sensors, in an EXCEL type spread sheet. See the HVAC Design Manual for hospital projects and MCS, Division 25 for additional information.
Note 5	Nitrogen control panel – for information regarding this panel see NFPA 99, Chapter 4 and Master Specifications, Section 22 63 00.
Note 6	Computer terminal – utility requirements for the in-room computer terminal are to be determined by the VAMC based upon the computer system to be used. This information is to be given to the A/E for incorporation into the construction documents; the printer for the in-room computer terminal is to be located remotely.
Note 7	Laser panel – it is understood that air-cooled lasers are soon to replace water cooled lasers. For this reason, the future impact of air cooled lasers on the design of the HVAC system must be considered by the designer. In spite of this anticipated change, it is the policy of the VHA program official that water service is to be provided in any operating rooms where existing water cooled lasers are to be continued in use.
Note 8	Zone valve box – a separate zone valve box is to be provided for each operating room (anesthetizing location) in accordance with NAPA 99 – Chapter 4. This cabinet is to be located in the peripheral corridor near the door to the operating room it serves. See MCS Section 22 63 00.



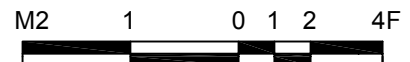
Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Reflected Ceiling Plan



450 NSF/ 41.8 NSM

SCALE $\frac{3}{16}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Reflected Ceiling Plan Notes

Note 1	Supply air outlet – perforated panel centered over operating table with no obstructions. A/E is to design it (do not scale.) This outlet is to provide 30 percent of supply air for the operating room. Air distribution is to be in a downward vertical direction. See the HVAC Design Manual for Hospital Projects.
Note 2	Supply air outlets – stainless steel multiple slot panel diffusers to be located above the perimeter of the “clean air zone”. A/E is to design them. (Do not scale.) These outlets are to provide 70 percent of supply air for the operating room. This air is to be discharged in a vertical air stream inclined at an outward angle of 15 degrees from the center of the room. See the HVAC Design Manual.
Note 3	Mounting plate for utility column – (do not scale.) Size of mounting plate varies with manufacturer. Exact type, size type, and location are to be determined by the A/E in coordination with the VAMC and VHA program officials.
Note 4	Type A surgical light fixture with single point suspension and single light head unit mounted from pivotal arm system – note that the location of the mounting plate is not to be placed directly over the operating table. That zone must be kept unobstructed for the supply air outlet and the plenum serving it above the ceiling. Provide surgical light with variable intensity control. See the Electrical and Telecommunication's Design Manual and MCS 26 55 71.
Note 5	Fluorescent light fixtures – general illumination. Only 2' x 4' (600 mm x 1200 mm) recessed fixtures with six (6) lamps are to be used in the operating room. This size of fixture is required to deliver enough ambient illumination while also producing color corrected light in the operating room. For more information see Electrical and Telecommunication's Design Manual.
Note 6	General illumination on emergency power – 50 percent of the fluorescent light fixtures above the operating table are to be provided emergency power with battery backup. All lighting shall be switched. Fixtures shall have six (6) lamps. Provide unswitched emergency hot leg to emergency battery packs. The fluorescent fixtures above the head of the patient (where the nurse anesthetist administers anesthesia and monitors the patient's vital signs) are to be provided emergency power.
Note 7	Sprinkler system – coordinate the location of the sprinklers with other ceiling systems in accordance with MCS, Division 13 and Plumbing Design Manual.
Note 8	Provide no ceiling tracks for intravenous solutions in the design. This restriction is based upon concerns for asepsis in the operating room.



Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Design Standards

ARCHITECTURAL

Ceiling: PL-SC/GWB-SC
 Ceiling Height: 9'-6" (2900 mm) (see Note 1)
 Wall Finish: PL-SC/GWB-SC
 Wainscot: WP 48" (1200 mm)
 Base: WSF 6" (150 mm) Integral Cove
 Floor Finish: WSF
 Slab Depression: --
 Notes: 1) Refer to PG-18-3 Design and Construction Procedures.

SPECIAL EQUIPMENT**LIGHTING**

General: --
 Special: Surgical Light (see Note 2)
 Emergency: --
 Notes: 1) 2' x 4' (600 mm x 1200 mm) fluorescent fixture w/ six (6) T8 fluorescent lamps directly around perimeter of surgery table with correlated color temperature between 5000°K and 6000°K, CRI=85. Color improved lamps matching color temperature of surgical light.
 2) (1) Type A surgical light. See reflected ceiling plan Note 4 for more information.
 3) Recessed fluorescent fixture with dimming system.
 4) The foot-candle level is average maintained.
 5) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 6) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General: As Shown
 Special: As Shown
 Emergency: X-Ray unit
 Notes: 1) A UPS may be supplied by and installed by VA. Verify raceway requirements with manufacturer.

COMMUNICATION/SPECIAL SYSTEMS

Data: Yes
 Telephone: Yes
 Intercom: --
 Nurse Call: --
 Public Address: --
 Radio/Entertainment: --
 MATV: --
 CCTV: Empty Conduit
 MID: --
 Security/Duress: --
 VTEL: --
 VA Satellite TV: --
 Notes: --

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions: 68°F – 73°F
 (17°C to – 27°C)
 Dry-Bulb Temperature
 30 Percent to
 60 Percent
 Relative Humidity
 Minimum Air Changes per Hour: 20 – Occupied
 10 - Unoccupied
 100% Exhaust: Yes
 100% Outside Air: Yes
 Room Air Balance: Positive (+)
 Dedicated Exhaust System: Yes
 Occupancy: 12
 AC Load-(Equipment): As Required
 AC Load-(Light): As Required
 Notes: 1) The operating staff shall select the set point for the space temperature within the limits of 62 F [16.7 C] and 80 F [26.7 C]. However, the corresponding relative humidity shall follow these guidelines:
 (a) The space relative humidity shall not be allowed to drop below 30%.
 (b) The space relative humidity shall not be allowed to rise above 60%.



Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Design Standards

**HEATING, VENTILATING AND AIR
CONDITIONING (Cont'd)**

- (c) In the cooling mode, higher space humidity (up to 60%) is attainable with the chilled water temperatures generally deliverable by the central chilled water temperatures. See Page 6-A101 for the suggested inside design conditions in cooling mode.
- (d) Unless directed otherwise by the medical center and surgery department, the cooling capacity shall be calculated to maintain 62 F [16.7 C] and 60% relative humidity. Heating capacity shall be calculated to maintain 80 F [26.7 C] and 30% relative humidity.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Nitrogen Oxide:	Yes
Nitrogen:	Yes
Anesthesia Evac:	Yes
Notes:	--

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
	TYPE J	1	CC	Floor sink, automatic flushing type (PG-18-1, MCS 22 13 00)
		AR	CC	Services, electrical. Special as required for the above equipment
A1120		1	CC	Column, utility, ceiling mounted (PG-18-1, MCS 22 63 00) locate at head of table 48" x 72" (1200 mm to 1800 mm) from the centerline and 24' x 48' (7200 mm to 14,400 mm) to the left of the centerline of the table column contains the following: 2 Inlets, Medical Vacuum (PG-18-1, MCS 22 62 00) 1 Outlet, Nitrous Oxide (PG-18-1, MCS 22 63 00) 2 Outlets, Oxygen (PG 18-1, MCS 22 63 00) 1 Outlet, Medical Air (PG-18-1, MCS 22 63 00) 1 Outlet, Nitrogen (PG-18-1, MCS 22 63 00) 1 Inlet, Dedicated anesthesia gas evacuation (PG-18-1, MCS 22 62 00) 1 Inlet, Mass atomic spectrometer (blank outlet)
A4015		1	CC	Clock, electric time elapsed, recessed (PG-18-1, MCS 27 52 41)
F3200		1	CC	Clock, electric with sweep second hand, recessed (PG-18-1, MCS 27 52 41)
		AR	CC	Outlet, electrical, 120 volt, recessed for clock (PG-18-1, MCS 26 27 26)
F0465	T-14	AR	CC	Cabinet, storage, with sloping top, 2 hinged panel doors, lock and 5 adjustable shelves. 48" W x 22" D x 84" H (1200 mm W x 550 mm D x 2100 mm H) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex and quadruplex (PG-18-1, MCS 26 27 26)
		1	CC	Window, viewing lead glass, for patient observation (PG-18-1, MCS 13 49 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
X3930		AR	CC	Illuminator, x-ray film, recessed (PG-18-1, MCS 26 51 00)
M7490		1	CF	Light, major, surgical with variable intensity control, single point suspension, ceiling mounted (location instructions available from electrical service) (PG-18-1. MCS 26 55 71)
		1	VC	Table, urological, radiographic. Motor driven, with x-ray tube support
		1	VC	Console, control
		1	VC	Radiographic tube and high voltage cables, 500 ma. Single phase
M1801		1	VV	PC, computer system, with keyboard
		AR	VV	Monitor, video
M5030		AR	VV	Stool, surgical
M8825		1	VV	Table, surgical instrument
E0942		AR	VV	Cart, case
M3185		1	VV	Unit, electrocautery
M4815		1	VV	Unit, hyperthermia

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1) – Cont'd

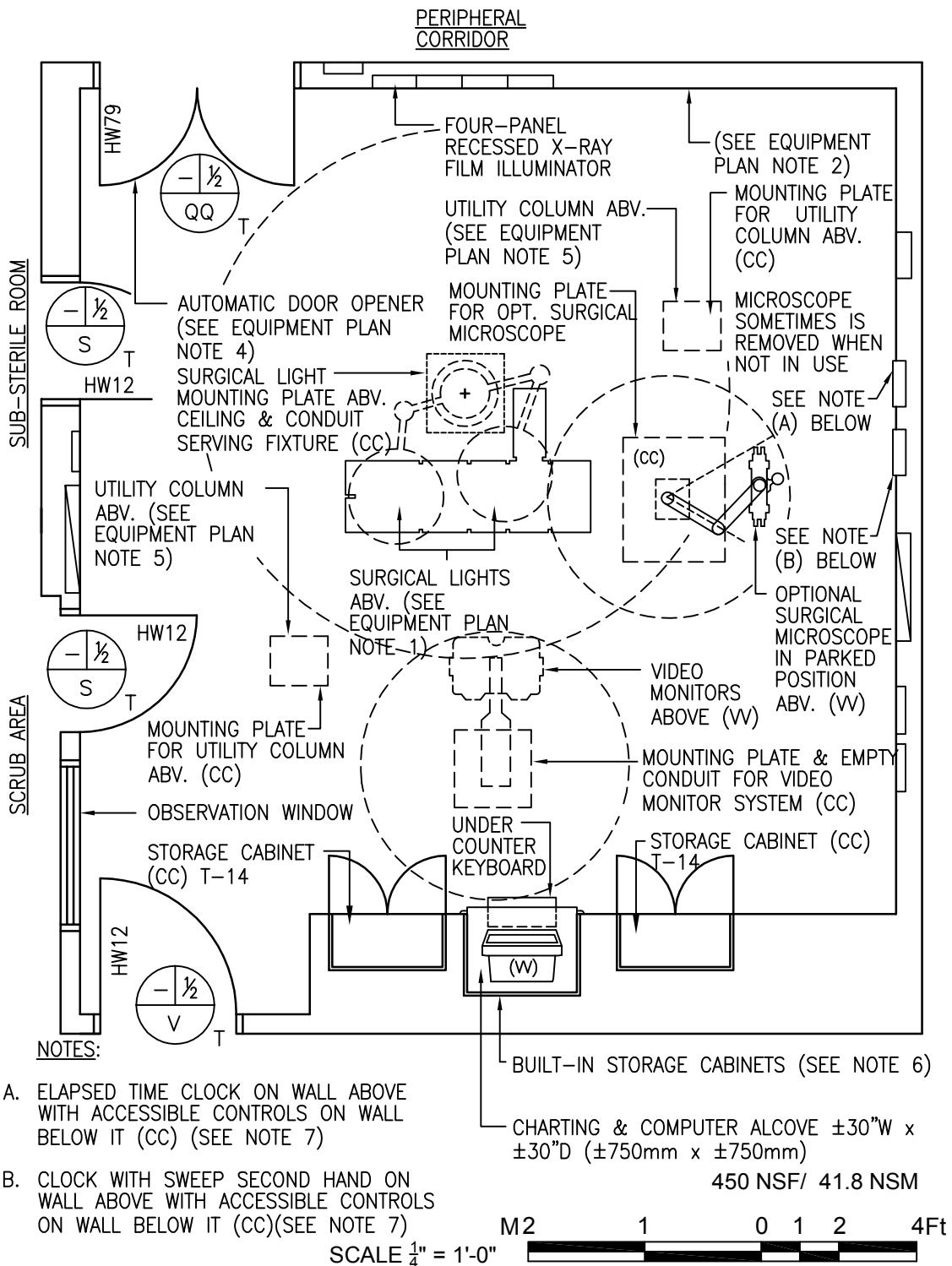
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
M3070		1	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" W x 21" D (900 mm W x 525 mm D)
M0630		1	VV	Machine, anesthesia, portable
M8800		1	VV	Cart, anesthesia equipment
M4255		1	VV	Stand, IV, mobile
M8755		1	VV	Machine, suction
CE030		1	VV	Cabinet, wall mounted, with door and 2 shelves



Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Equipment Plan



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Surgery: Ambulatory Surgery General Operating Room (ORGS1)

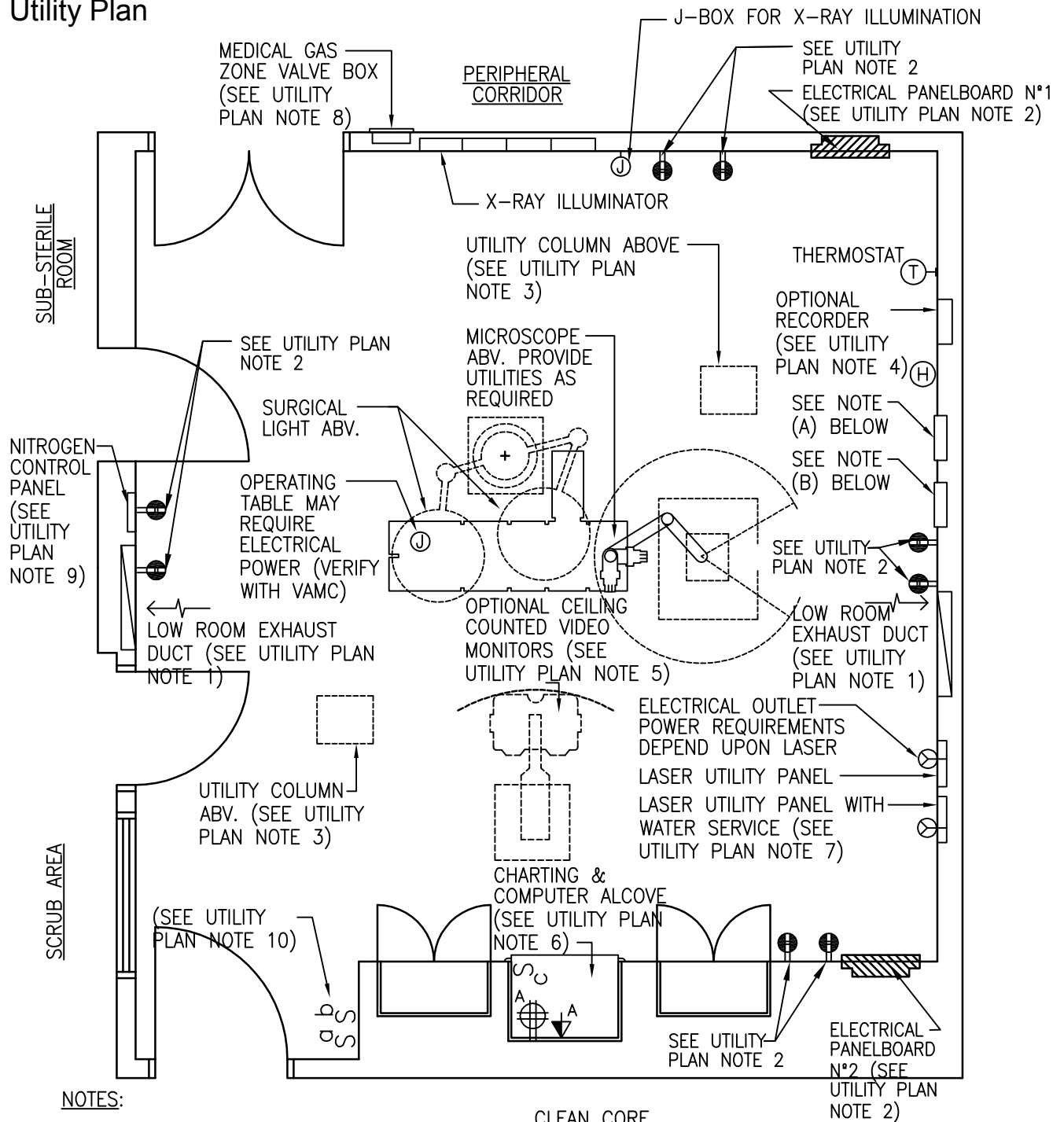
Equipment Plan Notes

Note 1	The surgical light fixtures are (CC) unless the VAMC chooses to select a specific surgical light fixture during design development. If the VAMC chooses the fixtures, they should be either (VV) or (CF). Coordination involving structural support, utility connections, and other details are the responsibility of the designer.
Note 2	Nominal thickness of walls should be shown as 8 inches (200 mm) through design development. This is based upon the need to accommodate a variety of panel boards, exhaust air ducts, and miscellaneous elements of construction that require a thicker partition than in other areas of a clinic or hospital building. Partitions other than the operating room enclosure should be shown nominally as 6 inches (150 mm) through design development, unless a special requirement dictates otherwise.
Note 3	Inclusion of x-ray shielding, consisting of a lead membrane in the partition, lead lined doors, and leaded glass observation windows is determined on a project basis. The need for radiation protection is based upon the degree to which portable x-ray equipment is to be used in each of the operating rooms, and continuous occupancy of adjacent spaces. Once it is determined that a lead membrane is required, the exact location of that membrane and details related to it are the designer's responsibility.
Note 4	An automatic door opener is to be provided in the corridor at the doors between the operating room and the peripheral corridor. A tread type opener is permitted; however, a wall-mounted type of automatic door opener is preferred.
Note 5	The ceiling mounted utility columns may be one of two types: articulating (as indicated on this guide plate series) or retractable (telescoping). The VAMC must decide which type of utility column to use during the design development phase of the project. If a choice is made at this point, the utility columns may be (VV), (CF) or (CC). If the VAMC declines to make a timely decision, then the utility columns will be (CC). Coordination involving structural support, utility connections, and other details is the responsibility of the designer.
Note 6	Modular casework – The VAMC has the option of choosing modular casework in lieu of built-in casework. However, this decision must be made during the design development phase of the project. If modular casework that is wall mounted is selected by the VAMC, the partitions must be designed to support the casework. It should be noted that the standard studs found in the master specifications are insufficient to carry this added weight: therefore, the equipment manufacturer's recommendations for supporting partitions should be followed where appropriate.
Note 7	Clocks – for more information regarding clocks in the operating room, see MCS, Section 27 52 41.
Note 8	See VA Equipment Guide List 7610, Chapter 286 for additional equipment not shown.



Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Utility Plan



NOTES:

- A. PROVIDE POWER AND JUNCTION BOX FOR RECESSED ELAPSED TIME CLOCK.
- B. PROVIDE POWER AND JUNCTION BOX FOR ELECTRIC CLOCK WITH SWEEP SECOND HAND.

450 NSF/ 41.8 NSM

SCALE $\frac{1}{4}$ " = 1'-0"



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Surgery: Ambulatory Surgery General Operating Room (ORGS1)

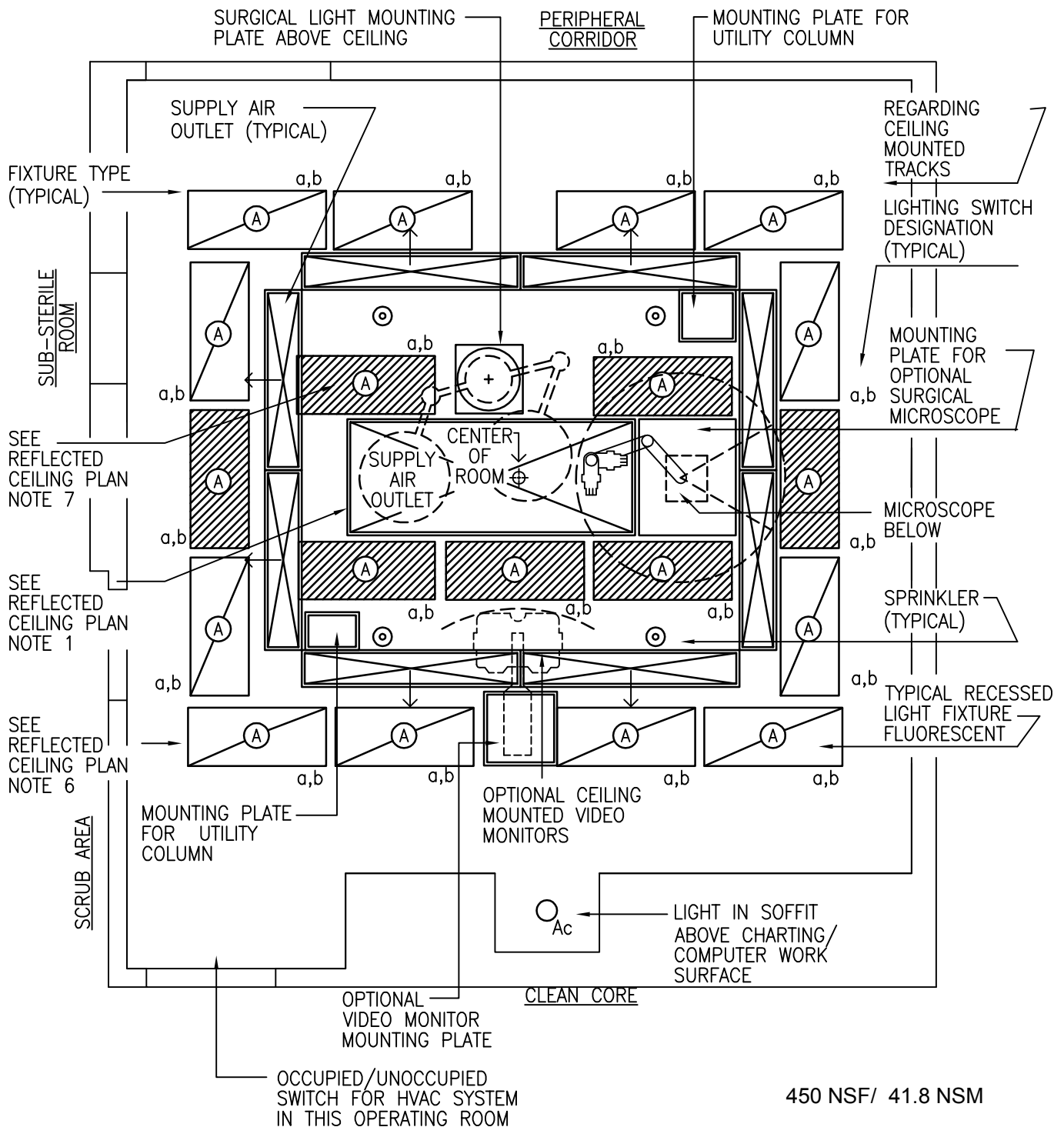
Utility Plan Notes

Note 1	Exhaust air grilles – provide a minimum of two (2) exhaust air grilles in this operating room. If only two (2) grilles are provided, locate them opposite from each other. Where there are more than two (2) exhaust grilles, center them on each of the walls of the operating room. The bottom of each exhaust air grille is to be 7 inches (175 mm) above finished floor. See the HVAC Design Manual for additional information.
Note 2	Two (2) critical power emergency panels fed from different distribution panels and transfer switches. Alternate receptacle circuiting between the two (2) panels.
Note 3	Utility column – provide connections on each utility column as delineated in Chapter 286, Equipment Guide List.
Note 4	HVAC controllers – Track and record the space temperature and relative humidity by DDC Controls – on hourly basis by the DDC space temperature and relative humidity sensors, in an EXCEL type spread sheet. See the HVAC Design Manual for hospital projects and MCS, Division 25 for additional information.
Note 5	Video monitors – the increasing use of fluoroscopy in surgical procedures has increased the need for video monitors located in the vicinity of the “sterile field”. With x-ray film soon to be replaced by digitized images displayed on a video screen, the use of these monitors in surgery will increase even further. This emerging technology is called “PACS” (picture archiving and communications system). The VAMC has a choice to make regarding these monitors. A set of video monitors can be mounted on a cart, or the set of video monitors can be mounted on an articulating arm that is suspended from the ceiling. The latter concept is shown on these guide plates. In either case, the A/E is to determine utility requirements for the video system selected by the VAMC and VHA program official. These requirements include: power supply; provisions for grounding of the monitors; communications linkage to other areas of the clinic.
Note 6	Computer terminal – requirements for the in-room computer terminal are to be determined by the VAMC. This information is to be given to the A/E for incorporation into the construction documents. The printer for the in-room computer terminals is to be located remotely.
Note 7	Laser panel – it is understood that air cooled lasers are soon to replace water cooled lasers. For this reason, the future impact of air cooled lasers on the design of the HVAC system must be considered by the designer. In spite of this anticipated change, water and drainage should be provided in operating rooms where water cooled lasers are to be continued in use.
Note 8	Zone valve box – provide a separate medical gas zone valve box for each operating room in accordance with NFPA 99, Chapter 4. Locate this cabinet in the peripheral corridor near the door to the operating rooms.
Note 9	Nitrogen control panel – see NFPA 99, Chapter 4 and MCS, Division 25 for information regarding this panel.
Note 10	Each lighting circuit in this room to be controlled by switches that provide different levels of illumination. Do Not use rheostats to control lighting levels.



Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Reflected Ceiling Plan



SCALE $\frac{1}{4}" = 1'-0"$



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Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Reflected Ceiling Plan Notes

Note 1	Supply air outlet – perforated panel centered over operating table with no obstructions. A/E is to design it (do not scale.) This outlet is to provide 30 percent of supply air for the operating room. Air distribution is to be in a downward vertical direction. See the HVAC Design Manual for hospital projects.
Note 2	Supply air outlets – stainless steel multiple slot panel diffusers to be located above the perimeter of the “clean air zone”. (See functional plan.) A/E is to design them. (Do not scale.) These outlets are to provide 70 percent of supply air for the operating room. This air is to be discharged in a vertical air stream inclined at an outward angle of fifteen degrees from the center of the room. See the HVAC Design Manual for hospital projects.
Note 3	Mounting plate for utility column – (do not scale.) Size of mounting plate varies with manufacturer. Exact size, type, and location are to be determined by the A/E in coordination with the VAMC and central office program officials.
Note 4	Surgical light fixture with two (2) identical light heads each mounted on an independent arm assembly – note that the location of the mounting plate is not to be placed directly over the operating table. That zone must be kept unobstructed for the supply air outlet and the plenum serving it above the ceiling. Provide surgical light with variable intensity control. See the Electrical and Telecommunication’s Design Manual.
Note 5	Surgical microscope – if VAMC chooses a ceiling-mounted microscope in lieu of a floor-mounted microscope, it must be supported by a fixed mounting plate. A ceiling track-mounted system is not to be used for the microscope due to concerns regarding asepsis. The exact size of the mounting plate depends upon the microscope selection. (Do not scale the guide plate.) Coordinate details and utilities requirements with VAMC.
Note 6	Fluorescent light fixtures – general illumination. Only 2’ x 4’ (600 mm x 1200 mm) recessed fixtures are to be used in the operating room to deliver enough ambient illumination while also producing color corrected light in the operating room. Each fixture shall have six (6) lamps.
Note 7	General illumination on emergency power – 50 percent of the fluorescent light fixtures above the operating table are to be provided emergency power with battery backup. Each fixture shall have six (6) lamps. All lighting shall be switched. Provide unswitched emergency hot leg to emergency battery packs. The fluorescent fixtures above the head of the patient (where the nurse anesthetist administers anesthesia and monitors the patient’s vital signs) are to be provided emergency power. Since the “head of the table” may be reserved on occasions when the ceiling-mounted microscope is in use, fluorescent fixtures above both ends of the table are to be put on emergency power.
Note 8	Mounting plate for video monitors – if the VAMC chooses a suspended video system instead of a cart-mounted system, the mounting plate must be integrated into the ceiling layout. The exact size and location of this plate must be determined. The mounting plate for the video monitors is not to be supported on tracks due to asepsis considerations.
Note 9	Video monitors – provide power and tele/data, OR CCTV, or fiber connections to support equipment and data systems as required for equipment selected by the VAMC.
Note 10	Sprinkler system – coordinate the location of the sprinklers with other ceiling systems in accordance with MCS, Division 13 and Plumbing Design Manual, medical centers.
Note 11	Provide no ceiling tracks for intravenous solutions in the design. This restriction is based upon concerns for asepsis in the operating room.



Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Design Standards

ARCHITECTURAL

Ceiling:	PL-SC/GWB-SC
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	PL-SC/GWB-SC
Wainscot:	WP 48" (1200 mm)
Base:	WSF 6" (150 mm) Integral Cove
Floor Finish:	WSF
Slab Depression:	--
Notes:	1) Additional 8" (200 mm) accessible space above ceiling for microscope or 10'-2" (3050 mm)

SPECIAL EQUIPMENT

--

LIGHTING

General:	--
Special:	Surgical Light (See Note 6)
Emergency:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) fluorescent fixture w/ F32T8 lamps with correlated color temperature between 5000°K and 6000°K, CRI=85. Color improved lamps matching color temperature of surgical light.
	2) Recessed fluorescent fixture with dimming system.
	3) The foot-candle level is average maintained.
	4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
	6) (1) Type B surgical light. See reflected ceiling plan notes for more information.

POWER

General:	As Shown
Special:	As Shown
Emergency:	X-Ray unit
	(1) X-Ray Film Illuminator
Note:	1) A UPS may be supplied by and installed by VA. Verify raceway requirements with manufacturer.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	Empty Conduit
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	62°F – 80°F (17°C – 27°C)
Dry Bulb Temperature	30 Percent to 60 Percent
Relative Humidity	20 – Occupied 10 - Unoccupied
Minimum Air Changes per Hour:	100% Exhaust: Yes
	100% Outside Air: Yes
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	Yes
Occupancy:	12
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Provide a dedicated air-handling unit and chiller to serve the operating room and associated area.
	2) The operating staff shall select the set point for the space temperature within the limits of 62 F [16.7 C] and 80 F [26.7 C]. However, the corresponding relative humidity shall follow these guidelines:
	(a) The space relative humidity shall not be allowed to drop below 30%.
	(b) The space relative humidity shall not be allowed to rise above 60%.



Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Design Standards

**HEATING, VENTILATING AND AIR
CONDITIONING (Cont'd)**

- (c) In the cooling mode, higher space humidity (up to 60%) is attainable with the chilled water temperatures generally deliverable by the central chilled water temperatures. See Page 6-A101 for the suggested inside design conditions in cooling mode.
- (d) Unless directed otherwise by the medical center and surgery department, the cooling capacity shall be calculated to maintain 62 F [16.7 C] and 60% relative humidity. Heating capacity shall be calculated to maintain 80 F [26.7 C] and 30% relative humidity.

PLUMBING AND MEDICAL GASES

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Nitrogen Oxide:	Yes
Nitrogen:	Yes
Anesthesia Evac:	Yes
Notes:	--

Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Equipment List

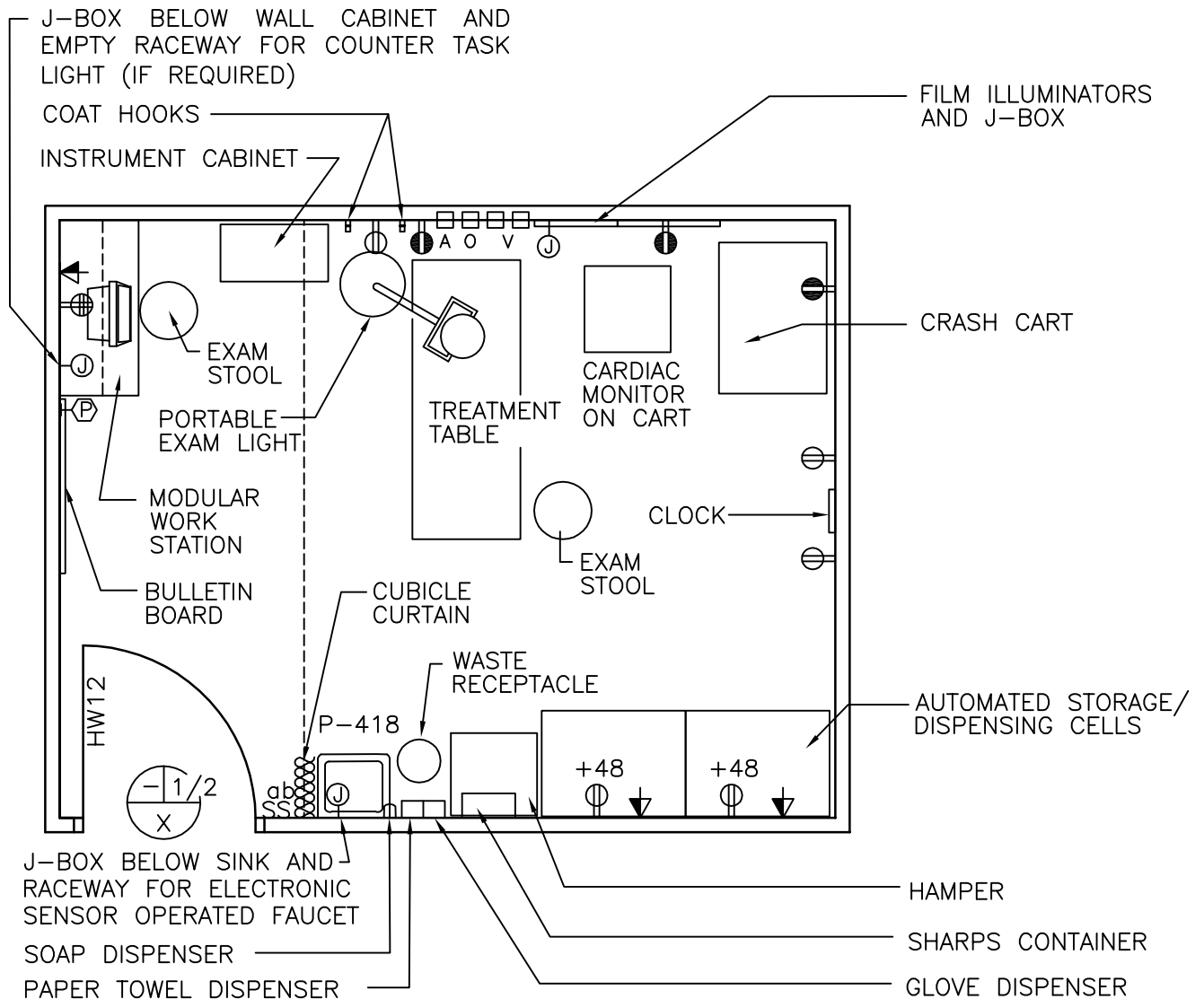
JSN	SYMBOL	QTY	AI	DESCRIPTION
CD040	T-14	AR	CC	Cabinet, storage, recessed, 2 hinged panel doors, lock and 5 adjustable shelves. 48" W x 22" D x 84" H (1200 mm W x 550 mm D x 2100 mm H) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, quadruplex (PG-18-1, MDC 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Support for optional video monitor (PG-18-1, MCS 27 41 31)
		AR	CC	Window, viewing lead glass (PG-18-1, MCS 13 49 00)
X3930		AR	CC	Illuminator, x-ray film, recessed (PG-18-1, MCS 26 51 00)
M1801		1	VV	CRT, computer system, with keyboard
		AR	VV	Monitor, video, optional system. See Utility Plan Note 5.
F0340		AR	VV	Stool, surgical
M8825		1	VV	Table, surgical instrument
E0942		AR	VV	Cart, case
M3185		1	VV	Unit, electrocautery
M4815		1	VV	Unit, hyperhypothermia
M3070		1	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" W x 21" D (900 mm W x 525 mm D)
M0630		1	VV	Machine, anesthesia, portable
M8800		1	VV	Cart, anesthesia equipment
M4255		1	VV	Stand, IV, mobile
M8755		1	VV	Machine, suction
CE050		1	VV	Cabinet, wall mounted, with door and 2 shelves



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Surgery: Minor Procedure Operating Room (TRGS1)

Floor Plan



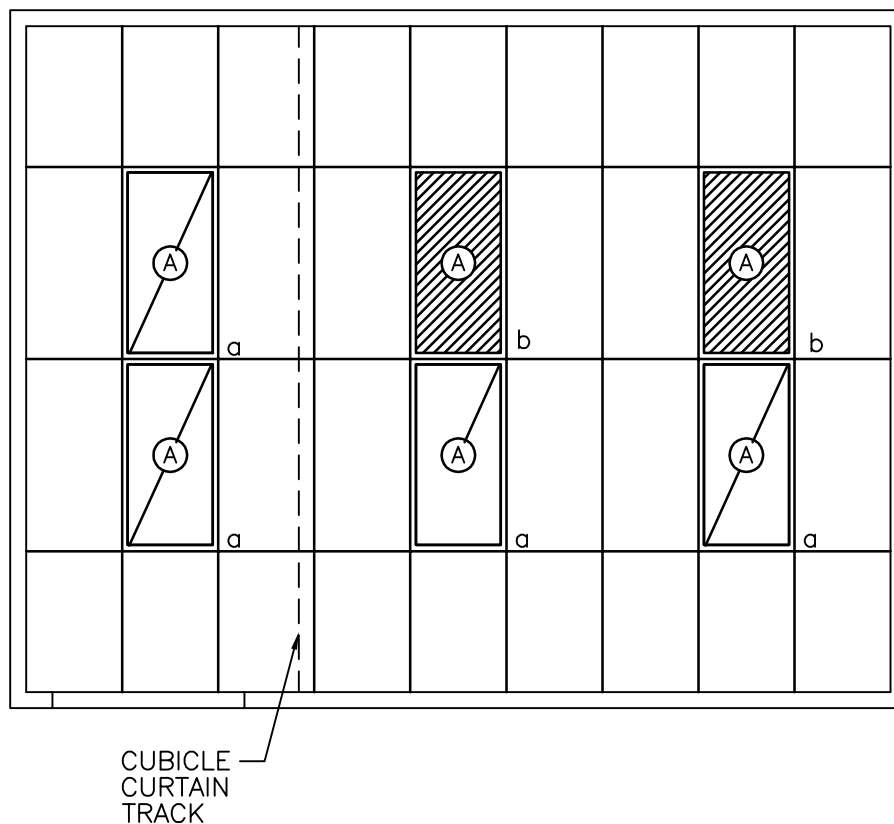
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SCALE $\frac{1}{4}" = 1'-0"$ M2 1 0 1 2 4Ft

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Surgery: Minor Procedure Operating Room (TRGS1)

Reflected Ceiling Plan



250 NSF/ 23.2 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Surgery: Minor Procedure Operating Room (TRGS1)

Design Standards

ARCHITECTURAL

Ceiling:	AT (SP)
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Cove
Floor Finish:	RSF
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT

	--
--	----

LIGHTING

General:	--
Special:	--

- Notes:
- 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 5000°K, CRI=85 (minimum).
 - 2) The foot-candle level is average maintained.
 - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
 - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Special:	As Shown
Emergency:	Yes

- Notes:
- 1) Coordinate location and height of work station receptacles with modular furniture.
 - 2) Exam table may be wall outlet connected.

COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	Empty Conduit
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	10
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) The operating staff shall select the set point for the space temperature within the limits of 62 F [16.7 C] and 80 F [26.7 C]. However, the corresponding relative humidity shall follow these guidelines:
	(a) The space relative humidity shall not be allowed to drop below 30%.
	(b) The space relative humidity shall not be allowed to rise above 60%.



Surgery: Minor Procedure Operating Room (TRGS1)

Design Standards

**HEATING, VENTILATING AND AIR
CONDITIONING (Cont'd)**

- (c) In the cooling mode, higher space humidity (up to 60%) is attainable with the chilled water temperatures generally deliverable by the central chilled water temperatures. See Page 6-A101 for the suggested inside design conditions in cooling mode.
- (d) Unless directed otherwise by the medical center and surgery department, the cooling capacity shall be calculated to maintain 62 F [16.7 C] and 60% relative humidity. Heating capacity shall be calculated to maintain 80 F [26.7 C] and 30% relative humidity.

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



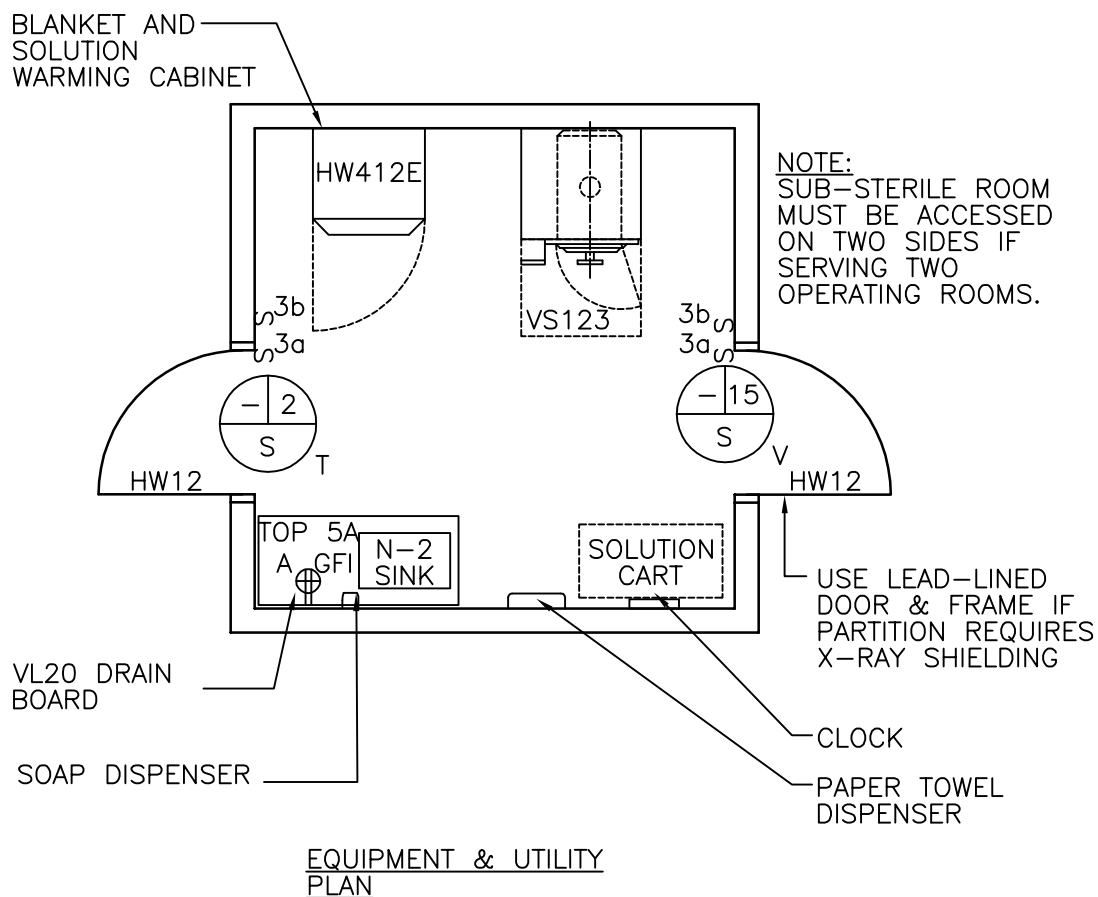
Surgery: Minor Procedure Operating Room (TRGS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle (PG-18-1, MCS 10 21 23)
A5180		AR	CC	Curtain, cubicle
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacles, electrical, quadruplex for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacles, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Button, alarm panic/duress (PG-18-1, MCS 27 52 31)
M3085		1	VV	Cabinet, instruments, 36" x 16" x 72" (900 mm x 400 mm x 1800 mm) with glazed doors, sloping top
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, approx. 12" (300 mm) diameter
X3930		AR	VV	Illuminators, film, x-ray, 120 volt, wall mounted (1 bank of 3)
M7401		1	VV	Portable exam light, 120 volts, w/ variable intensity controls approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M7860		1	VV	Monitor, cardiac - on cart (floor unit)
A5145		AR	VV	Hook, coat, wall mounted
M3070		1	VV	Hamper, soiled linen
F0355		2	VV	Stool, surgical
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system, with keyboard
M9060		1	VV	Table, treatment
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
M3150		AR	VV	Automated storage/dispersing unit (cell) secure, approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)

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Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1) Floor Plan



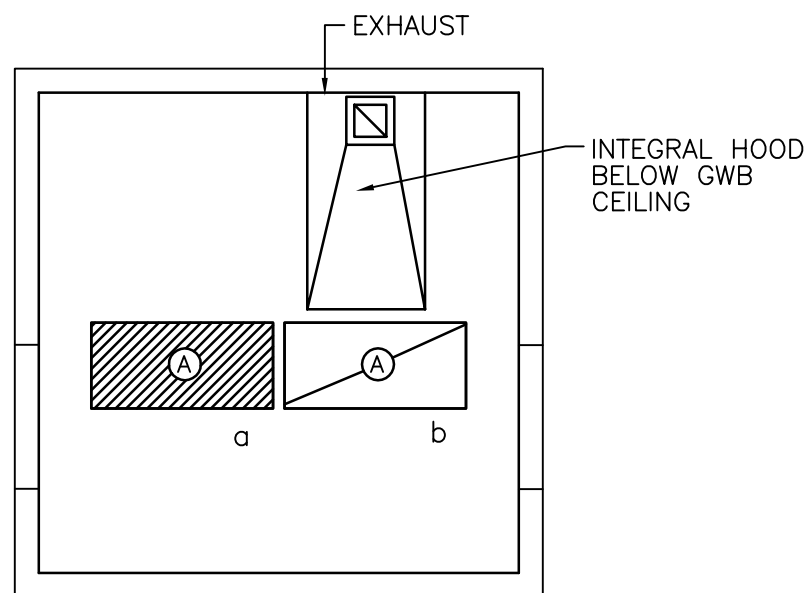
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SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1) Reflected Ceiling Plan



100 NSF/ 9.3 NSM

SCALE $\frac{1}{4}" = 1'-0"$



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1)

Design Standards

ARCHITECTURAL

Ceiling:	GWB-SC
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	WSF, 6" (150 mm)
	Integral Cove Base
Floor Finish:	WSF
Slab Depression:	--
Notes:	--

SPECIAL EQUIPMENT**LIGHTING**

General:	--
Special:	--
Emergency:	--
Notes:	<ol style="list-style-type: none"> 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture w/ acrylic prismatic lens, w/ F32T8 lamps, 4100°K, CRI=85 (minimum). The foot-candle level is average maintained. Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

POWER

General:	As Shown
Special:	As Shown
Emergency:	As Shown
Notes:	--

COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	As required
100% Exhaust:	Yes
100% Outside Air:	All Make-Up Air from adjoining spaces
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	None
AC Load-(Equipment):	None
AC Load-(Light):	As Required
Notes:	--

PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Compressed Air:	Yes
Oxygen:	--
Nitrogen Oxide:	--
Nitrogen:	--
Anesthesia Evac:	--
Acid Waste:	--
Silver Recovery:	--
Notes:	<ol style="list-style-type: none"> Pre-Filters on water feed to sterilizer needed.



Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
S0137	VS-122	1	CC	Sterilizer, electric single door, recessed through one wall, chamber size: 16" x 16" x 26"/3.8 cu. ft. (400 mm x 400 mm x 650 mm/0.11m ³). Provide water, compressed air, drain, electric and exhaust as required (PG-18-1, MCS 11 71 00). -or-
A0125	VS-123	1	CC	Sterilizer, electric single door, cabinet enclosed, chamber size: 16" x 16" x 26"/3.8 cu. ft. (400 mm x 400 mm x 650 mm/0.11M ³). Provide water, compressed air, drain, electric and exhaust as required (PG-18-1, MCS 11 71 00).
M3110	HW-412E	1	CC	Cabinet, blanket and solution warming, two heated compartments, electrical (service as required), recessed, 30" x 27" x 76" (750 mm x 675 mm x 1900 mm) (PG-18-1, MCS 11 53 71)
		1	CC	Drain, floor
CT050	TOP 5A	1	CC	Counter top, corrosion resisting steel, 1-1/4" (25 mm) thick with integral sink and drain board (PG-18-1, MCS 12 36 00)
C03P0	VL20	1	CC	Cabinet, under counter, sink unit, 2 hinged panel doors, available widths 30" (750 mm), 36" (900 mm), 42" (1050 mm), 48" (1200 mm); depth 22" (550 mm); height 36" (900 mm) including 5" (125 mm) toe base (PG-18-1, MCS 12 32 00)
CS150	N-2	1	CC	Sink corrosion resisting steel, with end or corner drain outlet, 22" x 16" x 11" (550 mm x 400 mm x 275 mm) deep (PG-18-1, MCS 12 36 00)
		1	CC	Receptacle, electrical, duplex, 120 volt, with ground fault interrupter (PG-18-1, MCS 26 27 26)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F0535		1	VV	Cart, solution
F3200		1	VV	Clock, atomic, battery operated



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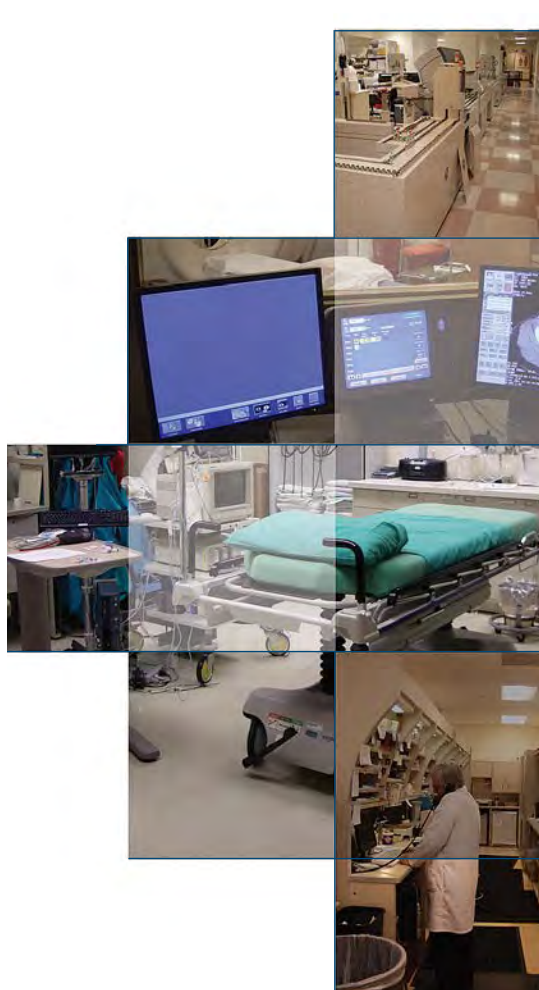
Section 5

Appendix

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Index / Cross Reference to Guide Plates

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Index Sorted By SEPS Code

SEPS Space Designation	Functional Area	Functional Section	Chapter 265 Space Name	Page
BMER1	OPC: Engineering		Biomedical Engineering Repair Shop	4-146
BRIT1	OPC: Amb Care	Urgent Care	UC: Infectious Isolation Room	4-98
BRUN1	OPC: Amb Care	Urgent Care	UC: Monitored Beds	4-102
CASH1	OPC: Amb Care	HAS Amb Care Section	Agent Cashier	4-58
CWSH1	OPC: SPD	Expanded Service	Soiled: Manual Equipment Wash	4-252
DNTG1	OPC: Dental		General Treatment Operatory	4-122
DNTG1	OPC: Dental		Combined Dental Hygiene Operatory	4-122
DNTR1	OPC: Dental	Oral Surgery Suite	Recovery Room	4-128
DNTS1	OPC: Dental	Oral Surgery Suite	Oral Surgery Room	4-132
DR001	OPC: Amb Care	Med/Surg Sub-specialty Clinics	ORTHO: Dressing Room	4-10
DR001	OPC: Endoscopy		Patient Changing Area	4-10
DR001	OPC: PMR	Basic Service	PT: Dressing Room	4-10
DR001	OPC: PMR	Expanded Physical Therapy	PT: Dressing Room	4-10
DR001	OPC: Radiology Basic	Basic Service	Dressing Room	4-10
DR001	OPC: Radiology Expand	Expanded Service	Dressing Room	4-10
EXOS1	OPC: Audiology - Expand	Expanded Service	AUD: Office/Therapy Room	4-118
EXRG3	OPC: Amb Care	Clinic Exam/Treat Modules	ETM: Multi-purpose Exam Room	4-14
EXRG3	OPC: Amb Care	Clinic Exam/Treat Modules	ETM: Special Purpose, Dermatology Exam Room	4-14
EXRG3	OPC: Audiology - Expand	Expanded Service	AUD: Posturography Room	4-14
EXRG3	OPC: Mental Health	Mental Health Clinic	MHC: Exam/Treatment Room	4-14
EXRG4	OPC: Amb Care	Module Support Space	NS: Nurse Triage Room	4-70
EXRG4	OPC: Amb Care	Module Support Space	Vital Signs Station	4-78
EXRG8	OPC: Amb Care	Med/Surg Sub-specialty Clinics	GYN: Exam Room	4-86
EYFC1	OPC: Eye Clinic		Photography Room	4-160



SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
EYFD1	OPC: Eye Clinic		Fitting and Dispensing Room	4-156
EYVF1	OPC: Eye Clinic		Visual Fields Room	4-160
JANC1	OPC: EMS		Housekeeping Aids Closet-HAC	4-18
JANC1	OPC: Endoscopy		Housekeeping Aids Closet	4-18
JANC1	OPC: Radiology Basic	Basic Service	Housekeeping Aids Closet-HAC	4-18
JANC1	OPC: Radiology Expand	Expanded Service	Housekeeping Aids Closet-HAC	4-18
JANC1	OPC: SPD	Expanded Service	Soiled: Housekeeping Aids Closet- HAC	4-18
JANC1	OPC: SPD	Expanded Service	Clean: Housekeeping Aids Closet- HAC	4-18
JANC1	OPC: Surgery	Ambulatory Surgery Center	Housekeeping Aids Closet-Small- HAC 1	4-18
JANC1	OPC: Surgery	Ambulatory Surgery Center	Housekeeping Aids Closet-Large- HAC 2	4-18
JANC1	OPC: Surgery	Ambulatory Surgery Center	Cysto: Housekeeping Aids Closet- HAC	4-18
JANC1	OPC: Surgery	Minor Surgery Center	Housekeeping Aids Closet-HAC 1	4-18
LBVP1	OPC: Amb Care	Med/Surg Sub- specialty Clinics	ONC: Oncology Lab	4-2
LBVP1	OPC: Lab (PLM) Basic	Basic Service	Blood Specimen Collection Room	4-2
LBVP1	OPC: Lab (PLM) Expand	Expanded Service	Blood Specimen Collection Room	4-2
LMCH3	OPC: Lab (PLM) Expand	Expanded Service	Laboratory, Clinical Chemistry	4-164
LMM03	OPC: Lab (PLM) Expand	Expanded Service	Laboratory, Clinical Microbiology	4-170
MEDP1	OPC: Amb Care	Med/Surg Sub- specialty Clinics	DERM: Dermatology Medication Prep/ Storage Room	4-22
MEDP1	OPC: Amb Care	Module Support Space	NS: Medication Room	4-22
MEDP1	OPC: Mental Health	Methadone Maintenance	MMP: Medication/Treatment Room	4-22
MEDP1	OPC: Surgery	Ambulatory Surgery Center	PAR: Medication Preparation Room	4-22
NSTA1	OPC: Surgery	Ambulatory Surgery Center	Support: Nurse Station	4-26
NSTA1	OPC: Surgery	Minor Surgery Center	Support: Nurse Station	4-26
NSTA4	OPC: Amb Care	Module Support Space	NS: Nurse Station	4-30
NSTA4	OPC: Amb Care	Urgent Care	UC: Nurse/Communication Station	4-30
NSTA4	OPC: Endoscopy		Nurse Station	4-30
NSTA4	OPC: Surgery	Ambulatory Surgery Center	Control and Communication Center	4-30

SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
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NSTA4	OPC: Surgery	Minor Surgery Center	Control and Communication Center	4-30
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OFA01	OPC: Amb Care	HAS Amb Care Section	HAS: Office, Health Benefits Advisor / Patient Services Asst.	4-34
OFA01	OPC: Amb Care	HAS Amb Care Section	HAS: Office, Travel Clerk	4-34
OFA01	OPC: Amb Care	HAS Amb Care Section	HAS: Office, Agent	4-34
OFA01	OPC: Amb Care	HAS Amb Care Section	HAS: Office, Medical Records Administrator	4-34
OFA01	OPC: Amb Care	HAS Amb Care Section	HAS: Office, Asst. Chief, MIS	4-34
OFA01	OPC: Amb Care	HAS Amb Care Section	HAS: FU Office, Supervisor	4-34
OFA01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	ONC: Office, Data Coordination/Tumor Register	4-34
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OFA01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	CBHC: Office, Nurse	4-34
OFA01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	CBHC: Office, Social Worker	4-34
OFA01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	CBHC: Office, Clerical Support Staff	4-34
OFA01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	GEU: Office, Social Worker	4-34
OFA01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	GEU: Office, Clerical Support Staff	4-34
OFA01	OPC: Amb Care	Module Support Space	HAS: Office, Health Benefits Advisor	4-34
OFA01	OPC: Amb Care	Module Support Space	HAS: Office, Compensation and Pension Clerks	4-34
OFA01	OPC: Amb Care	Module Support Space	NS: Office, Telephone Triage Nurse	4-34
OFA01	OPC: Amb Care	Module Support Space	NS: Nurse Case Manager	4-34
OFA01	OPC: Amb Care	Module Support Space	NS: Office, Physician Extender	4-34
OFA01	OPC: Amb Care	Module Support Space	NS: Office, Social Worker	4-34
OFA01	OPC: Amb Care	Urgent Care	UC: Office, Head Nurse	4-34
OFA01	OPC: Amb Care	Urgent Care	UC: Office, Physician	4-34
OFA01	OPC: AMM	Administration	Office, Chief	4-34



SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
OFA01	OPC: AMM	Administration	Office, Supervisor, Procurement Section	4-34
OFA01	OPC: AMM	Administration	Office, Supervisor, Supply Management Section	4-34
OFA01	OPC: Audiology - Expand	Expanded Service	Office, Chief of Service	4-34
OFA01	OPC: Clinic Management		Office, Medical Administrative Officer (MAO)	4-34
OFA01	OPC: Clinic Management		Office, Clinic Management Support Staff	4-34
OFA01	OPC: Dental		Office, Administrative Assistant	4-34
OFA01	OPC: EEG		Office, EEG Technician	4-34
OFA01	OPC: EMS		Office, Chief	4-34
OFA01	OPC: Eye Clinic		Office, Blind Rehabilitation (VIST) Counselor	4-34
OFA01	OPC: Health Admin	Fee Services Section	Fee Services Workstation, Supervisor	4-34
OFA01	OPC: Health Admin	Fee Services Section	Fee Services Workstation, Clerical	4-34
OFA01	OPC: Health Admin	Fee Services Section	Fee Services Supplemental Equipment Space	4-34
OFA01	OPC: Health Admin	Medical Care Cost Recovery	MCCR Workstation, Supervisor	4-34
OFA01	OPC: Health Admin	Medical Care Cost Recovery	MCCR Workstation, Clerical	4-34
OFA01	OPC: Health Admin	Office of the Chief	Office, Assistant Chief	4-34
OFA01	OPC: Health Admin	Office of the Chief	Office, Administrative Assistant	4-34
OFA01	OPC: Lab (PLM) Expand	Expanded Service	Office, Chief Medical Technologist	4-34
OFA01	OPC: Lobby		Escort Room	4-34
OFA01	OPC: Mental Health	Administration	Office, Director	4-34
OFA01	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Statistical Clerk	4-34
OFA01	OPC: Pharmacy Expand	Expanded Service	Consultation Room	4-34
OFA01	OPC: Pharmacy Expand	Expanded Service	Office, Chief	4-34
OFA01	OPC: Pharmacy Expand	Expanded Service	Office, Assistant/Associate Chief	4-34
OFA01	OPC: Pharmacy Expand	Expanded Service	Office, Supervisory Pharmacist	4-34
OFA01	OPC: Pharmacy Expand	Expanded Service	Drug Receiving, Inventory Control/Stock Manager Clerk	4-34

SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
OFA01	OPC: PMR	Basic Service	PT: Clinic Office	4-34
OFA01	OPC: PMR	Expanded OT	OT Clinic Office	4-34
OFA01	OPC: PMR	Expanded Physical Therapy	PT: Office, Administration	4-34
OFA01	OPC: Prosthetics		Office, Chief	4-34
OFA01	OPC: Prosthetics		Office, Prosthetic Representative	4-34
OFA01	OPC: Prosthetics		Office, Dispensing Prosthetic Clerk	4-34
OFA01	OPC: Radiology Expand	Expanded Service	Office, Professional, Non Physician	4-34
OFA01	OPC: Service Organizations		Office, Service Organization Representative FT	4-34
OFA01	OPC: Service Organizations		Office, Service Organization Representative PT	4-34
OFA01	OPC: SPD	Expanded Service	Clean: Dispatch Area	4-34
OFA01	OPC: Surgery	Ambulatory Surgery Center	Office, Head Nurse	4-34
OFA01	OPC: Surgery	Minor Surgery Center	Office, Head Nurse	4-34
OFA01	OPC: Voluntary		Office, Chief	4-34
OFA01	OPC: Voluntary		Office, Service Officer	4-34
OFA02	OPC: AMM	Acquisition and Distribution	Office, Storekeeper	4-34
OFA03	OPC: Audiology - Expand	Expanded Service	Office, Administrative Assistant	4-34
OFA03	OPC: Radiology Expand	Expanded Service	Office, Reception	4-34
OFA03	OPC: Surgery	Ambulatory Surgery Center	Office, Clerical	4-34
OFA03	OPC: Voluntary		Office, Clerical Support	4-34
OFA03	OPC: Voluntary		Volunteer Sign-In Area	4-34
OFA03	OPC: Voluntary		Organization Workstation	4-34
OFC01	OPC: Clinic Management		Office, Chief Administrative Officer	4-34
OFC01	OPC: Dental		Office, Chief	4-34
OFC02	OPC: Health Admin	Office of the Chief	Office, Chief	4-34
OFD01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	CBHC: Office, Physician	4-34
OFD01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	GEU: Office, Nurse Practitioner	4-34
OFD01	OPC: Amb Care	Med/Surg Sub- specialty Clinics	GEU: Office, Physician	4-34
OFD01	OPC: Amb Care	Module Support Space	NS: Office, Physician	4-34
OFD01	OPC: Endoscopy		Office, GI Assistant	4-34

SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
OFD03	OPC: Dental		Office, Dentist	4-34
OFD03	OPC: Eye Clinic		Office, Eye Care Provider	4-34
OFD03	OPC: Lab (PLM) Expand	Expanded Service	Office, Pathologist and Microscope Area	4-34
OFD03	OPC: Surgery	Ambulatory Surgery Center	Office, Staff Surgeon	4-34
OFD03	OPC: Surgery	Ambulatory Surgery Center	Office, Anesthesiologist/Anesthetist	4-34
OFD03	OPC: Surgery	Ambulatory Surgery Center	Office, Resident	4-34
OFDC1	OPC: Mental Health	Methadone Maintenance	MMP: Office/Exam Room, Nurse Practitioner	4-174
OFDC1	OPC: Mental Health	Day Treatment Center	DTC: Office, Chief	4-34
OFDC1	OPC: Mental Health	Day Treatment Center	DTC: Office, Counseling Staff	4-34
OFDC1	OPC: Mental Health	Mental Health Clinic	MHC: Office, Chief	4-34
OFDC1	OPC: Mental Health	Mental Health Clinic	MHC: Office, Counseling Staff	4-34
OFDC1	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Chief	4-34
OFDC1	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Physician	4-34
OFDC1	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Nurse/Pharmacist	4-34
OFDC1	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Psychologist	4-34
OFDC1	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Social Worker	4-34
OFDC1	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Rehabilitation Counselor	4-34
OFDR1	OPC: Radiology Basic	Basic Service	Office, Staff Radiologist	4-34
OFDR1	OPC: Radiology Expand	Expanded Service	Office, Chief Radiologist	4-34
OFDR1	OPC: Radiology Expand	Expanded Service	Office, Staff Radiologist	4-34
OOHR1	OPC: Amb Care	Urgent Care	UC: Observation / Treatment Room	4-106
OPCR1	OPC: Amb Care	Med/Surg Sub- specialty Clinics	ORTHO: Cast Room	4-94
OPDU1	OPC: Amb Care	Med/Surg Sub- specialty Clinics	DERM: Dermatology Phototherapy Treatment Room	4-62
OPPF1	OPC: Pulmonary		Ventilatory Test Room, Spirometry	4-198
OPPF5	OPC: Pulmonary		Exercise Room	4-190



SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
OPTC1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	ONC: Chemotherapy Treatment Room - 3 Stations	4-90
ORCS1	OPC: Surgery	Ambulatory Surgery Center	Cystoscopy Room	4-256
ORGS1	OPC: Surgery	Ambulatory Surgery Center	General Operating Room	4-266
ORSA1	OPC: Surgery	Ambulatory Surgery Center	Cysto: Scrub Area	4-256
ORSR1	OPC: Surgery	Ambulatory Surgery Center	Sub-Sterile Room	4-282
PEHS1	OPC: Audiology - Expand	Expanded Service	AUD: Booth, Audiometric Exam	4-110
PHBS2	OPC: Pharmacy Expand	Expanded Service	Oncology Drugs, Storage and Clean/Decontamination Area	4-184
PHIV3	OPC: Pharmacy Expand	Expanded Service	Oncology Drugs, Preparation Area (includes Clean Vestibule & Hazardous Clean Room; and 'clean' HAC)	4-184
RECP1	OPC: Amb Care	HAS Amb Care Section	HAS: Central Reception	4-42
RECP1	OPC: Amb Care	Module Support Space	HAS: Clinic Module Reception Area	4-42
RECP1	OPC: Audiology - Expand	Expanded Service	Office, Patient Receptionist/Control Clerk	4-42
RECP1	OPC: Endoscopy		Reception Area	4-42
RECP1	OPC: Mental Health	Administration	Reception/Control Unit	4-42
RECP1	OPC: Prosthetics		Reception and Waiting	4-42
RECP1	OPC: Surgery	Ambulatory Surgery Center	Support: Reception Counter	4-42
RECP1	OPC: Surgery	Minor Surgery Center	Support: Reception Counter	4-42
SEC01	OPC: Lab (PLM) Expand	Expanded Service	Office, Secretary/Clerical	4-34
SEC01	OPC: Mental Health	Administration	Office, Secretary/Clerical	4-34
SEC01	OPC: Mental Health	Substance Abuse Clinic	SAC: Office, Secretary/Clerical	4-34
SEC01	OPC: Pharmacy Expand	Expanded Service	Office, Secretary and Waiting	4-34
SEC01	OPC: Prosthetics		Office, Secretary and Waiting	4-34
SEC01	OPC: Radiology Expand	Expanded Service	Office, Secretary and Waiting	4-34
SEC01	OPC: Service Organizations		Office, Secretary	4-34
SEC01	OPC: Voluntary		Office, Secretary	4-34
SHWR1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	DERM: Dermatology Phototherapy Shower Room	4-62

SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
SRCH1	OPC: Audiology - Expand	Expanded Service	AUD: Instrument Calibration and Storage Room	4-114
TLTS1	OPC: EMS: (LLTS)		Single Showers	4-50
TLTS1	OPC: SPD	Expanded Service	Soiled: Lockers, Toilet, and Shower Facility	4-50
TLTS1	OPC: Surgery	Ambulatory Surgery Center	Staff Toilet/Shower Rooms - Female	4-50
TLTS2	OPC: Surgery	Ambulatory Surgery Center	Staff Toilet/Shower Rooms - Male	4-50
TLTU1	OPC: Amb Care	Clinic Exam/Treat Modules	ETM: Public Toilet	4-54
TLTU1	OPC: Amb Care	HAS Amb Care Section	HAS: Toilets, Public	4-54
TLTU1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	GI: Toilet	4-54
TLTU1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	ONC: Patient Toilet	4-54
TLTU1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	GYN: Patient Toilet	4-54
TLTU1	OPC: Amb Care	Module Support Space	NS: Staff Toilet	4-54
TLTU1	OPC: Audiology - Expand	Expanded Service	Vetibulography Patient Toilet	4-54
TLTU1	OPC: Clinic Management		Toilet, Staff	4-54
TLTU1	OPC: Dental		Patient Toilet	4-54
TLTU1	OPC: Endoscopy		Patient Toilet	4-54
TLTU1	OPC: Lab (PLM) Basic	Basic Service	Urine Specimen Collection Toilet	4-54
TLTU1	OPC: Lab (PLM) Expand	Expanded Service	Urine Specimen Collection Toilet	4-54
TLTU1	OPC: Lobby		Public Toilet-Male	4-54
TLTU1	OPC: Lobby		Public Toilet-Female	4-54
TLTU1	OPC: Mental Health	Administration	Toilet, Staff	4-54
TLTU1	OPC: Mental Health	Administration	Patient Toilet, Male	4-54
TLTU1	OPC: Mental Health	Administration	Patient Toilet, Female	4-54
TLTU1	OPC: Mental Health	Methadone Maintenance	MMP: Toilet, Urine Specimen Collection	4-54
TLTU1	OPC: Pharmacy Expand	Expanded Service	Toilet, Staff	4-54
TLTU1	OPC: PMR	Basic Service	PT: Patient Toilet, Wheelchair	4-54
TLTU1	OPC: PMR	Expanded Physical Therapy	PT: Patient Toilet, Wheelchair	4-54
TLTU1	OPC: Radiology Basic	Basic Service	Patient Toilet	4-54



SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
TLTU1	OPC: Radiology Expand	CT Imaging Suite	Patient Toilet	4-54
TLTU1	OPC: Radiology Expand	Expanded Service	Patient Toilet	4-54
TLTU1	OPC: Radiology Expand	Ultrasound	Patient Toilet	4-54
TLTU1	OPC: Surgery	Ambulatory Surgery Center	PAR: Toilet, Staff	4-54
TLTU1	OPC: Surgery	Ambulatory Surgery Center	Support: Patient Toilet	4-54
TLTU1	OPC: Surgery	Minor Surgery Center	Toilet, Staff	4-54
TLTU1	OPC: Surgery	Minor Surgery Center	Support: Patient Toilet	4-54
TREE1	OPC: Endoscopy		EGD Procedure Room	4-138
TREY1	OPC: Eye Clinic		Exam/Treatment Room	4-152
TRGM1	OPC: Amb Care	Clinic Exam/Treat Modules	ETM: Multipurpose Procedure Room	4-74
TRGS1	OPC: Surgery	Minor Surgery Center	Minor Procedure/Operating Room-OR	4-276
TRGS1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	DERM: Dermatology Procedure/Treatment Room	4-66
TRPE1	OPC: Amb Care	Med/Surg Sub-specialty Clinics	GI: Screening Proctoscopy/Sigmoidoscopy Room	4-82
TRPE2	OPC: Pulmonary		Special Procedures/Bronchoscopy Room	4-194
UCCL1	OPC: Amb Care	Clinic Exam/Treat Modules	ETM: Clean Utility Room	4-6
UCCL1	OPC: Endoscopy		Clean Utility Room	4-6
UCCL1	OPC: PMR	Expanded Physical Therapy	PT: Clean Utility Area	4-6
UCCL1	OPC: Radiology Expand	Expanded Service	Clean Utility Room	4-6
UCCL1	OPC: Surgery	Ambulatory Surgery Center	Storage, Clean and Sterile Supplies	4-6
UCCL1	OPC: Surgery	Ambulatory Surgery Center	PAR: Clean Utility Room	4-6
USCL1	OPC: Amb Care	Clinic Exam/Treat Modules	ETM: Soiled Utility Room	4-46
USCL1	OPC: Endoscopy		Soiled Utility Room	4-46
USCL1	OPC: Radiology Expand	Expanded Service	Soiled Utility Room	4-46
USCL1	OPC: Surgery	Ambulatory Surgery Center	Soiled Holding/Disposal Room	4-46



SEPS Space Designa tion	Functional Area	Functional Section	Chapter 265 Space Name	Page
USCL1	OPC: Surgery	Ambulatory Surgery Center	PAR: Soiled Utility Room	4-46
USCL1	OPC: Surgery	Minor Surgery Center	Soiled Holding/Disposal Room	4-46
USCL2	OPC: Endoscopy		Scopes Clean-Up, Sterilization and Storage Room	4-142
XCTC1	OPC: Radiology Expand	CT Imaging Suite	CT Computer and Power Equipment Room	4-216
XCTC1	OPC: Radiology Expand	CT Imaging Suite	CT Control Room	4-222
XCTS1	OPC: Radiology Expand	CT Imaging Suite	CT Scanning Room	4-210
XDCS1	OPC: Radiology Expand	Expanded Service	Chest Room - Dedicated	4-204
XDM01	OPC: Radiology Expand	Mammography	Mammography Room	4-234
XDRF1	OPC: Radiology Basic	Basic Service	Radiographic/Fluoroscopic (R/F) Room	4-238
XDRO1	OPC: Radiology Basic	Basic Service	General Purpose (G.P.) X-Ray Room	4-230
XDUS1	OPC: Radiology Expand	Ultrasound	Ultrasound Room	4-244
XFFA1	OPC: Radiology Basic	Basic Service	Film Library	4-226
XFFA1	OPC: Radiology Expand	Film Processing	Film Library	4-226
XVC01	OPC: Endoscopy		Dictation/Viewing Room	4-38
XVC01	OPC: Radiology Basic	Basic Service	PACS Viewing Room	4-38
XVC01	OPC: Radiology Expand	Film Processing	Common Viewing Room	4-38
XVC01	OPC: Surgery	Ambulatory Surgery Center	PACS Viewing Room	4-38
	OPC: Pharmacy Basic	Basic Service	Waiting Area	4-178
	OPC: Pharmacy Basic	Basic Service	Office, Pharmacist/Consultation Room	4-178
	OPC: Pharmacy Basic	Basic Service	Prescription Receiving	4-178
	OPC: Pharmacy Basic	Basic Service	Filing and Assembly	4-178
	OPC: Pharmacy Basic	Basic Service	Dispensing	4-178
	OPC: Pharmacy Basic	Basic Service	Storage, Active	4-178
	OPC: Pharmacy Basic	Basic Service	Refrigeration	4-178
	OPC: Pharmacy Basic	Basic Service	Drug Receiving	4-178
	OPC: Pharmacy Basic	Basic Service	Storage, Prosthetic and Medical Supplies	4-178
	OPC: Pharmacy Basic	Basic Service	Toilet, Staff	4-178
	OPC: SPD	Basic Service	Sterile/Non-Sterile Storage Areas	4-248
	OPC: SPD	Basic Service	Clean Receiving and Bulk Storage Area	4-248



April 28, 2009

Director, Strategic Management Office (00CFM1)

New Outpatient Clinic and Ambulatory Care (Hospital Based) Design Guides Concurrence

Madhulika Agarwal, MD, Chief Consultant, Chief Patient Care Services Officer (VACO 11)

1. The new Outpatient Clinic and Ambulatory Care Design Guides have been completed. These documents are now available on the Office of Construction & Facilities Management (CFM) Technical Information Library (TIL) website at www.va.gov/facmgt/standard. Hard copies of the documents are attached.
2. The new Design Guides are intended to provide tools for a project team to use as a basis and framework for the planning and design of VA Outpatient Clinic and Ambulatory Care facilities. These documents have been produced with reliance on your input as well as from clinicians, administrators, and support groups from VHA Primary Care Clinic and Patient Care Services, and the Office of Construction & Facilities Management. We have made every effort to incorporate the large body of data, information, and comments provided.
3. To formally complete this hallmark effort, we ask that you once again review the documents and indicate your concurrence by signing below and returning a copy.
4. Many thanks for your essential assistance in providing these standards for planning, design, and construction of state-of-the-art facilities supporting world class healthcare for our Nation's Veterans. Please do not hesitate to contact me if you have any questions or comments.

// s // 4/28/09
Lloyd H. Siegel, FAIA

Attachments

Concur/Non Concur

// s //

Madhulika Agarwal, MD

7/27/09

DATE